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Games: Playable demos of Dark Reign, CART Precision Racing, 3D Ultra Pinball: The Lost Continent, Genocide, Gubble 2, I-War, TOCA Touring Car Championship, Tomb Raider 2, Virtua Squad 2, Byzantine: The Betrayal, plus the starter kit for the WirePlay online games network. **Utilities:** Shareware – LaunchPad, FileNotes, QuickShell, Visual Copy 2.0, Paint Shop Pro, WinZip 6.3, Thunderbyte 8.03, ScratchPad. **Applications:** Shareware – INSTAbase, Multisoft Affairs, Yeah Write for Win 95 and 3.1, Countdown 97, Motivator Pro, FaxMail for Win 95 and 3.1, It's Time, Hip Help, Boxer, plus WinLotto trial version. **Internet access kits:** Telstra Big Pond, Mondial. **Web browsers:** Internet Explorer 4.0, Netscape Communicator and Navigator 4 for Windows 95, 3.1 and NT, plus Shockwave, RealPlayer and Acrobat plug-ins. **Online shareware tools:** AutoWinNet 95, DataGrabber, Flying Toolbars, Internet Commander, Power Access, Excalibur.

M15+ *Some of the games on this CD-ROM have low-intensity depictions of animated violence.*

* See page 3 of this month's PC User for more details.

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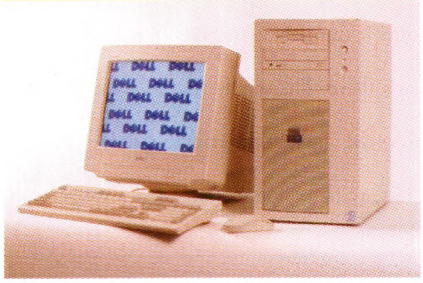
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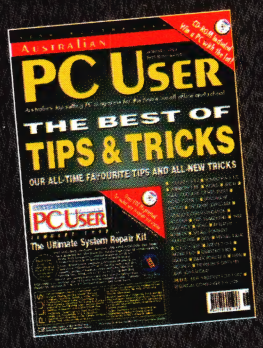
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Contents

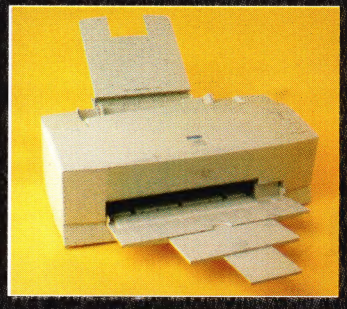
Volume 10 Number 1 January 1998



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Special annual edition:

PC User's Best of Tips and Tricks — chock full of tips for your favourite applications, operating system, the Internet and much more.



We select the best products of 1997 — everything from printers to productivity software, games and educational CD-ROMs.

Login

6 Inbox: Readers have their say and offer their experiences with computers.

Buyer's Guide

14 PC Consumer's Guide: Buying a PC is not a game, but our unique tutorial will make it seem like child's play.

16 PC Pulse: The real-world guide to new and second-hand PC prices.

20 Best Products of 1997: We select the best-value, most valuable and most impressive products of the year.

Small Business Guide

26 Top business tips: How to use a customer database, backup data and much more.

32 Internet marketing tips: The Net *can* be cost-effective — if you follow these tips.

33 Year 2000 tips: A PC user's guide to getting ready to face the year 2000 'problem'.

The Games Guide

34 Games hints 'n' cheats guide

Tips for Diablo, Twinsen's Odyssey, Jedi Knight: Dark Forces II, MDK, Hexen II, Total Annihilation, Daggerfall, Dungeon Keeper, Fallout, Need for Speed 2, Starfleet Academy, Ultima Underworld 2 and Wing Commander IV.

User's Guide

46 Applications

Word processing: The hottest tips for Word 6.0, 7.0 and 97, Corel WordPerfect 7 and Word Pro 97.

Document design tips: Make your letters, resumes, forms, flyers and other documents look great.

Spreadsheets: Tips for Excel 5.0 and later, Lotus 1-2-3 97 and Quattro Pro 7.

HTML: Top tips for budding and serious Web authors.

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Subscribe to *PC User* and you could win this Super Value Bundle from Compucon, featuring a Pentium 200MHz PC, 24x CD-ROM drive, 33.6Kbps fax-modem, Microsoft Windows 95, colour scanner, Epson Stylus Color printer and more! See page 64.

$100 worth of books or CD-ROMs

Our letter of the month wins this great prize from Webster Publishing! See page 8.

PC User's ultimate games & education pack!

One lucky subscriber will win the year's best games and educational titles, as selected by *PC User!* See page 6.

Web graphics tips: How to make your graphics Internet-friendly.

Visual Basic: Tips for all programming levels.

70 Operating systems

The hottest tips for Windows 95, NT and 3.1x, DOS and OS/2 Warp.

64 Online

Internet user's tips: Hot hints for searching, boosting browser performance, handling error messages and much more.

Modem tips: Connect at top speed, troubleshoot your connection and more.

Bulletin board tips: The Net's not the only way to get online. Check out these tricks.

94 Answers

Question time! Jan Wikström answers readers' technical questions about Windows.

Internet Explorer 4.0 issues: Due to popular demand, Jan Wikström tracks down the traps and problems when installing IE 4.0.

96 Toolkit

Bug Patrol: We track down the most important bugs, fixes and workarounds for Windows 95, 3.1x, NT, Office 97 and more.

Shareware: The best of the latest applications and utilities for Windows 95, 3.1 and DOS.

LOGOUT

107 Crossword page: Test your computer knowledge and visit some strange Web sites.

140 That's Debatable: Has the fun gone out of PC games?

AUSTRALIAN PC USER OFFLINE

What's on your bonus CD-ROM!

Games

Playable Windows 95 demos: **Dark Reign, CART Precision Racing, 3D Ultra Pinball: The Lost Continent, Genocide, I-War, TOCA Touring Car Championship, Virtua Squad 2, Byzantine: The Betrayal, Tomb Raider 2** (playable beta), **Gubble 2** (playable alpha).

Wireplay: Starter kit for this hot new over-18s online games network.

Utilities

Shareware: As reviewed on page 104, **LaunchPad, FileNotes, QuickShell, Visual Copy 2.0**, plus **PaintShop Pro 4.14, WinZip 6.3, Thunderbyte 8.03** for Windows 95 and 3.1.

Year 2000 bug checkers: The DOS shareware **DOSCHK, Test2000** and **YMark2000**.

General and business applications

Shareware: As reviewed on page 104, **INSTAbase, Multisoft Affairs, Yeah Write 1.2, Countdown 97, Motivator Pro, FaxMail, It's Time, Hip help, Boxer,** plus the trial version of **WinLotto** plus **Hewlett-Packard scanner software for Windows NT 4.0** (see page 81).

Online tools

ISP kits: Get connected to the Net the easy way with **Telstra Big Pond** and **Mondial** access kits.

Web browsers: Internet Explorer 4.0, Netscape Communicator and **Navigator 4** for Windows 95 and 3.1.

Internet utilities: As reviewed on page 104, **Internet Explorer 4 PowerToys, Flying Toolbars for Netscape Navigator, AutoWinNet95, DataGrabber, Internet Commander**, plus **Net.Medic 1.2, Eudora Light** and plug-ins for **ShockWave, RealPlayer 5** and **Acrobat**.

BBS software: Power Access and **Excalibur**, as described on page 91.

Disclaimer

We have tested this CD-ROM extensively and taken every care to scan for viruses. However, *Australian PC User* cannot guarantee that all the software on the CD will work on every PC. Finally, we cannot be held responsible for any damage to your system caused directly or indirectly by any software on the PC User Offline disc, or by following any of the tutorials on this disc.

Patches

Cover feature: As described in our special Bug Patrol column starting on page 98, all **Windows 95 system updates, PowerToys, KernelToys, Office 97 Service Release 1, Excel 97, Outlook patches, Windows NT 4.0 Service Pack 3, GetAdmin, Diskeeper Lite, Microsoft Personal Fax, SP3 security update, DOS 6.x to 6.2x updater, MSD 2.11, Windows 3.1 to 3.11 updater**, plus all the **updated Windows 3.1x drivers and .dlls** listed on page 80, the **Caldera OpenDOS** operating system described on page 79, **Direct-x 5.0, QuickTime** and **Visual Basic runtime files**, and more.

PC User Interactive

Australian ISPs: The latest pricing, dial-up points and other details on more than 570 Internet Service Providers across Australia!

On-disc tutorials: Can't find a patch or utility described in one of our tutorials this month? Check out the tutorials in the PC User Interactive section.

Using PC User Offline

To make it easy for you to try the software on the CD, we've provided Web pages that allow you to read about the software then install or run them. We've provided the latest versions of Netscape, Internet Explorer and the Shockwave plug-in to allow you to read our pages — although we currently recommend use with IE 3 or 4 for Windows 3.1 or Windows 95. This is because it allows programs to be run straight off the CD whereas Netscape doesn't.

The easiest way to use our disc is to simply run the version of IE pre-installed on the CD — nothing, apart from our icons, are installed on your hard disk. See the back of the CD cover for installation instructions. From there, simply click on the PC User Offline icon and start browsing our CD. Our Web pages include tab buttons for the software categories described above, or you can click the Software toggle button to access our Web site preview of Internet tutorials and sites.

Newcomers to our disc should click on the Help button, available from all Web pages, for more instructions on how to browse our CD and install software.

Having trouble?

We are happy to provide written technical support for the software created by *Australian PC User*, **but we cannot provide telephone support**. *PC User* software includes the PC User Offline Web pages and Interactive tutorials. It does not include any third-party software on this disc, including Microsoft Internet Explorer.

If you need technical support for any of the third-party software or tutorials on the CD, you will need to contact the developer of that program, although you should note that companies often supply software and documentation "as is" and do not support them. You will find details about the developer either in the program's Help menu or Readme file accompanying the program.

If your disc is damaged, just send the disc and a note with your name and postal address, to PC User Disc Exchange, GPO Box 4088, Sydney NSW 1028.

For technical support of *PC User* software, write to Philip Moore at the above address, e-mail him at pmoore@acp.com.au or send a fax to him on (02) 9267 4909. Please include full details about your system and any error messages you have encountered while running our disc, or we may have trouble helping you out!

About this software

Please note that while some of this software is completely free, many programs are trial versions or shareware, both of which are designed for you to try for a limited time only. If you continue to use a shareware program, you are obliged to pay an additional registration fee to the author or official supplier.❑

PC User Plus card match and win!



PC User's ultimate games & education pack

PC User subscribers get a number of benefits (see page 64), including our PC User Plus card. Each card comes with its own individual number — which could be one of the winning numbers for this month's great giveaway: *PC User*'s ultimate games and education pack, worth a total of $640!

The pack includes *PC User*'s games and educational software selections from our `Best Products of 1997'.

Games include the hot new Star Wars action game **Jedi Knight: Dark Forces II** and the sports simulation **Virtual Pool 2**, both from Metro Games, as well as the strategy war game, **Dark Reign: The Future of War** from Activision.

Education software includes: the electronic music lessons, **Piano Discovery Software Year One** from Moore Music; the word and spelling tutor for primary school students, **Phones Alive 2: The Sound Blender** from Advanced Software; and the fun typing tutor for all ages, **Keywala's Typing Adventure** from TypeQuick.

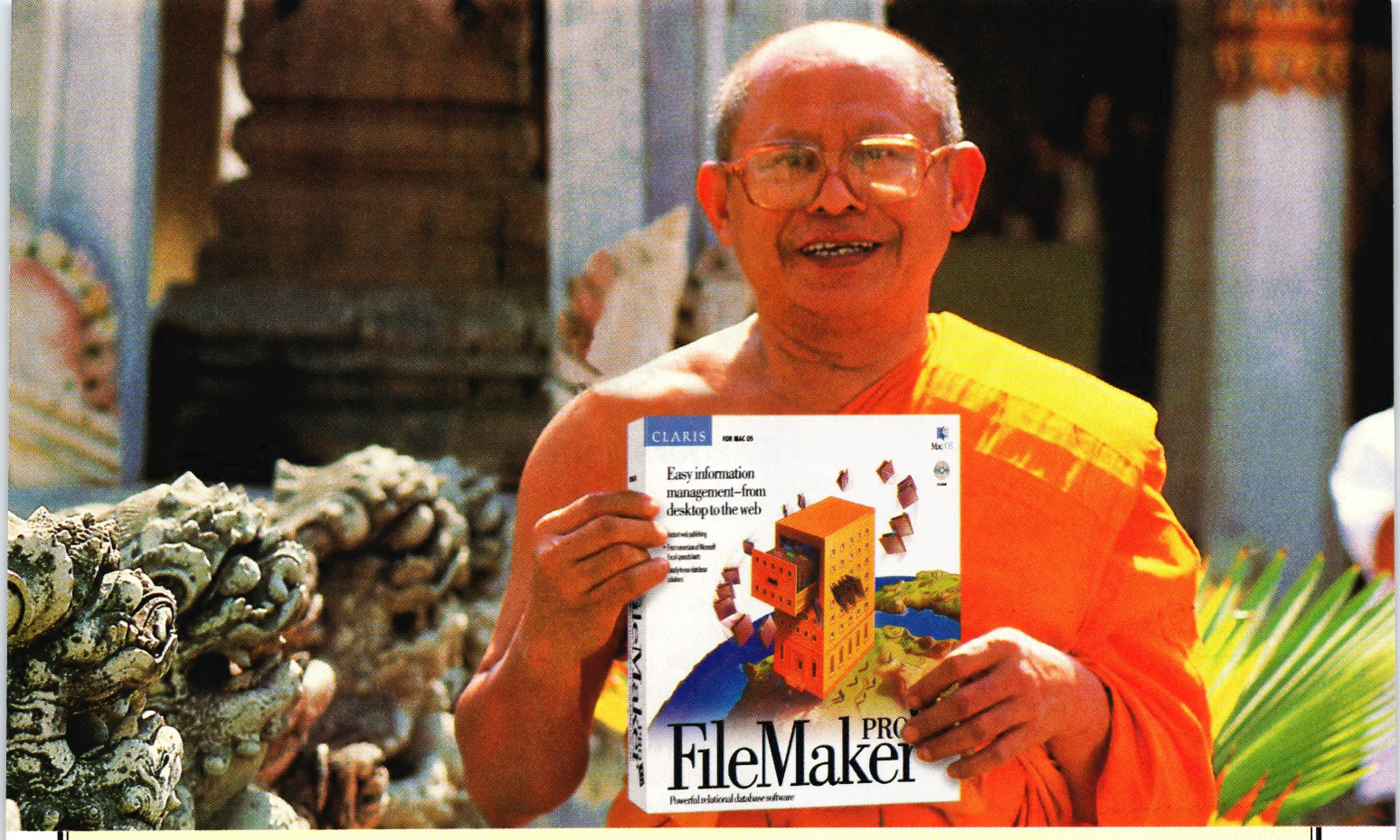
See page 20 for full descriptions of all six programs.

If your number matches one of those below, just give us a call on (02) 9288 9138. The first caller wins the whole lot!

Winning numbers: 113, 2411, 98821, 3, 49, 1250, 48, 80000, 666, 933.

System requirements

The PC User Offline disc can be used with any PC that reads DOS-based CD-ROMs. However, we recommend use with Microsoft Internet Explorer 3 or later for Windows 3.1 or 95 with the Shockwave plug-in, which requires at least a 486 with 8Mb of RAM. The third-party software on the CD may have higher system requirements.



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Quite simply, you don't have to be a guru to use FileMaker Pro 4.0

On the other hand though, being a guru shouldn't put you off.

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Contributing writers

Angela Booth, Helen Bradley, Linda Bruce, David Flynn, Link Harris, John Hilvert, Stephen O'Brien, Mark Rogers, Jon Simonds, Rose Vines, Darren Yates

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Inbox

Readers' letters

Wake up, Australia!

I am originally from the US. When I attended college in California, I thought an 8.25 per cent sales tax was pretty high. In those days, I used to compare that with the four per cent sales tax I grew up with in Hawaii. But nothing can compare to the absolutely ridiculous sales tax the Australian government expects its citizens to pay.

What makes Australian sales tax far worse than virtually any other civilised country is that it is hidden. The general population is unaware of just how much tax it is really paying.

It took me a couple of years to get used to the 22 per cent sales tax paid on computers, scanners and printers. But when I learned that digital cameras have a 32 per cent sales tax, I just had to vent my frustration somehow!

I have visited many countries. In democratic ones, 17.5 per cent is the highest sales tax I encountered. That was in Israel — a country with a huge inflation rate, little in the way of natural resources, and surrounded by potentially hostile nations.

Why are Australians asked to pay outrageous sales tax?

It is time for Australians to become aware of the robbery perpetrated by their own government, and demand civilised sales tax rates. Sales tax must be reduced to a reasonable level, and sales tax should be known and understood by the public, not hidden and secret. If this government is truly interested in promoting commerce and, thereby create jobs, sales tax is a good place to start. Sales tax reduction will not solve all of our problems, but it will certainly help.

Marc Breault
East Malvern, Vic

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Enough of bugs!

An otherwise innocent reply to a reader's question in your December '97 issue (page 107) made me see red about the attitudes of the whole PC industry, including manufactures, retailers, consumers and PC magazines in general.

At first Jan Wikström's answer to Hans Geissler's problem ('Me no speaka dat'), with the English (Australian) setting in MS Office 97, seemed harmless enough — Microsoft has a correction for this known bug and a patch file can be obtained from their Web site, although it is "well hidden". I am sure this helpful advice will solve Geissler's problem, and presumably many other users of this product.

But then I thought, 'hey this is not the correct answer to the problem'. This consumer has purchased the latest version of a quality product, presumably in CD-ROM form for about $500. He (or others) may have upgraded from a previous version of the same program at a gift price of about $400 (excuse the sarcasm). Sure the patch file solution will correct the files on the user's hard disk, but the CD-ROM he purchased is still faulty. We are talking about one of the highest regarded programs available on the Australian market, and it has a problem reading Australian English.

I believe the correct advice would be to contact Microsoft Australia and to obtain a new CD-ROM without this bug, free of charge.

Why do we accept this bug business as part of using computers? Yes, there is always a fix for the bug, but the average person has a real problem understanding and carrying out the fixes, no matter how



Before you dive in, look into an LG.

You may have thought that, if you wanted the earth's finest computer monitors, you'd have to pay the highest prices.

LG is here to challenge that belief.

Last year, 6 million computer users discovered how much quality LG could squeeze into each monitor dollar.

They discovered that LG's 15" Studioworks monitor, for example, offers features you'd expect to find on a high end professional unit:

- a flat, square tube, for a more lifelike picture;
- non glare screen, for maximum viewing comfort;
- brilliant lifelike colours;
- on-screen display, for the most accurate adjustments;
- some models even include built-in speakers and microphone.

They also discovered that you don't have to splash out as much as you might expect to enjoy a correspondingly superior performance from LG's bigger 17" and 20" monitors too. And that **whichever** one you choose, there's a very reassuring warranty to go with you into the future.

So, before you dive in and buy a new monitor, don't just look into any old monitor – look into an LG.

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LGE047PCU

Letter of the month: Swallow your pride, OS/2 users

I am writing in response to the letter 'Revenge on Microsoft' by Michael Bowie, which was published in the October '97 issue (page 6). Mr Bowie found OS/2 Warp 3.0 too slow with a 486DX4/100 and 8Mb of RAM, but with 16Mb of RAM he found it to be a wonderful operating system. He recommended it as an alternative to Microsoft Windows 95.

I read Bowie's letter the day after upgrading my 486DX2/66 from 8Mb of RAM to 24Mb. Like Bowie, I tried OS/2 Warp 3.0 before (twice) and rejected it because it was too slow, so I decided to try out his advice. I reinstalled OS/2 Warp 3.0 in the (good) way he recommended, using "advanced installation" Boot Manager and HPFS.

No-one in their right mind should trying using Warp's HPFS with only 8Mb of RAM. If, for some strange reason, you have to run Warp with only 8Mb of RAM, use "easy installation" and FAT. You'll save yourself a world of grief.

Bowie is right. With more than 8Mb of RAM, Warp is a sensational operating system. It's fast, robust, capable, customisable and consistent in how it works (which is the next best thing to being intuitive). I've had a look at Microsoft Windows 95, and a long look at Linux (which I couldn't get to recognise my CD-ROM drive), so I think I'm in a reasonable position to say that OS/2 Warp 3.0 is the best operating system that will really work on an old 486.

It's also a lousy choice in the real world. There was never enough software for OS/2, and the situation had gotten worse since I first tried OS/2 Warp. Now IBM has accepted Microsoft's desktop monopoly as an unalterable fact, the situation will only deteriorate. Multimedia CDs? Forget it. OS/2 games? Forget it. Real world application? The first thing I did after installing was to call up Discware, the Sydney OS/2 shop, and try to buy a copy of the Describe 5.0 native OS/2 word processor, for $125 (a bargain). It wasn't possible. The nice man at Discware had sold all of his stock, and couldn't order more because Describe is dead and scalpers in America are hoarding the last copies. They know that functional native OS/2 software is like water in the desert to the few remaining OS/2 holdouts. A quick search for OS/2 resources on the Internet produced mostly broken links. (A caveat, though this was my first Internet search, and an expert searcher might have a different opinion on what OS/2 resources can be found on the Internet). This is the state of the strongest alternative to Microsoft Windows.

Based on what I can see of the state of the multimedia applications software market, my honest advice to anyone with similar hardware and financial constraints is: "swallow your pride and go Microsoft all the way"

David Scott
Marsfield, NSW

How to enter

Each month PC User *selects a letter of the month, with the winner choosing a prize worth $100 from Webster's great range of computer books and Moving Books series of CD-ROMs. Just send your letter of no more than 300 words to* PC User *(see 'How to contact us'), and please include your postal address and daytime telephone number.*

Entry is open to all residents of Australia other than employees of ACP Publishing or Webster Publishing. Entry for February 1998 closes on January 1, 1998. The judges' decision is final. All entries become the property of ACP Publishing.



simple it may seem to those in the computer world. We should be able to purchase a fully tested, quality product, load it, and it should work perfectly or be replaced.

I really don't want to talk about my personal problems, but suffice to say that after installing an internal modem with its own software and fax program, then after installing my first *PC User* CD-ROM with Acrobat and Shockwave, finding that every button you push on Windows 95 opens yet another communication or browser program, then installing Encyclopedia Britannica which automatically loads Netscape Navigator, my once orderly files are now a huge mess and I just don't want to know.

This all brought to mind two of my favourite "computer fix" expressions. When your expert adviser tells you, "Go ahead, you won't do any harm", soon followed by, "Well, sometimes it does that — sorry". Heard that before?

Chris Munday
Parkwood, WA

Why no answer?

The letter "Disappointed with Review" published in your November '97 issue (page 6) from Mark Janssen and Lachlan Williams of Proscan Australia pointed out that your review of scanners was unfair, damaging, inconsistent, badly carried out and overall unprofessional and wrong. For some reason you printed the whole thing - without any comment – Why?

It was 'nice' of you to print the letter, but I think that ProScan and all your unsuspecting readers, especially ones that purchased scanners based on your inaccurate article deserve an apology for the incompetence; answers to the questions asked by Mark Janssen and Lachlan Williams, and an assurance that future articles will be written by people who know what they are talking about.

I am in no way connected with Proscan or any other hardware company, I just don't like your apparent lack of concern.

Nigel Jays
Internet

Coming up

Back to school special: The best educational software selected.

PCs for first-time buyers: We review home PCs for all budgets.

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Wireplay

The games network

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One of my pet hates is the way certain publications always want the last word when criticised. The letter's section is a forum for readers, and that includes vendors, not for PC User's *writers or me. I will answer a letter only when necessary. Yes, the scanner's list of specifications includes some wrong software, but we thought many of the points in the Proscan letter were debatable. Yet a page-long reply to the letter would not have allowed Proscan to counter our arguments, so I decided not to answer the letter. You can be sure that if a review is proved to be completely inaccurate, we will publish a correction. — Ed*

Netscape's 'monster'

I agree with Stephen McBride, "Microsoft's cookie monster" December '97 issue (page 8), but Microsoft's not the only cookie monster out there on the Web. It seems that where ever you go, where ever you turn or which search engine you use, Microsoft and Netscape want to send a cookie. The position is becoming dictatorial, if I refuse the cookie, I can't enter.

Another annoying feature is that of the digital certificate. Netscape won't allow me to access my profile or parts of Netcentre without one. Java came up with a message that said encryption was suspect and without a digital certificate, froze every time I tried to go on to the Web.

Netscape also has a nasty habit of asking for a product number or registration number, which is downloaded from Netscape and added to the user profile and is needed to obtain Technical Support, surprise, surprise, you need a digital certificate.

Netscape offers a free digital certificate from Verisign, great, you fill in the form, instructions come in from Verisign via e-mail, only there are no instructions, no private keys issued and certainly no pin number and worst of all - the user is not even registered on Verisign's database, yet Netscape tells me that I have a certificate.

Microsoft FrontPage 98 is a program I find very easy to use. The layout design, I can manipulate to my own uses, but it has one very annoying feature, the Web server. In Netscape I can cancel using my ISP, but IE4 won't allow you to do this, you must put your Web page into a mythical file that I can't even find, though the browser says exists on my hard drive.

I can't work out whether these two companies are dictators or communists, but the fight for supremacy and market monopoly is not in the end users interest.

The sooner these large companies stop worshipping the 'pagan god of money' and start listening to their customers, the better off we will all be.

Eddy O'leary
Coober Pedy, SA

Too expensive

I am a regular reader of *Australian PC User* and enjoy most of the content in it, although I have a complaint to make.

I finally decided to upgrade my old 486 into something with some more power, so I looked towards your Buyer's Guide section for some suggestions on what sort of video card and sound card to purchase. But upon looking at it I realised that all the products reviewed were the expensive brand names (Creative, Diamond Stealth, etc.). Being on a budget for this upgrade, I found all these products too expensive for my wallet.

In the end I purchased a S3 Virge video card and a PnP sound card along with a Cyrix CPU. I ask that in the future you review some products that are not so expensive (why pay $375 for a sound card (Creative Awe64 Gold) when a $50 one does the job for most of us. The products I purchase do the job fine for me and probably for the majority of your readers.

Also, I think your magazine should contain more gaming reviews/information. Games are a large part of computing for a home user, but a small part of your magazine.

Stuart Gibs
Internet

Great recommendation

After moving to the Northern Territory to a new job and a new income, I started reading PC User in the hope that I might find information on what to buy to replace my trusty old 486. I only needed to read the September '97 issue (page 16) for the answer ... the Computers Direct Australia (CDA) MultiMedia Plus K6200MMX.

Your article promised a system that offered performance and value and after a short family discussion I decided to place an order.

Mindful of your slight criticism of the standard soundcard, I enquired about an upgrade to an AWE 64. No problem at all. Could they replace the internal modem with a Banksia Wave SP? Certainly. A BJC 4200 printer?

Done. How about a different software package? Of course.

Feeling extremely happy with the price and warranty (on site, anywhere, even outback Katherine) and guided by the excellent over-the-phone service provided by Robert at CDA, I waited expectantly for the day of delivery. Previous experience told me that nothing happens quickly in the Northern Territory, so I was pleasantly shocked when the system arrived one week early! A call to Robert to express my gratitude was met with the reply: "Our aim is to please, sir".

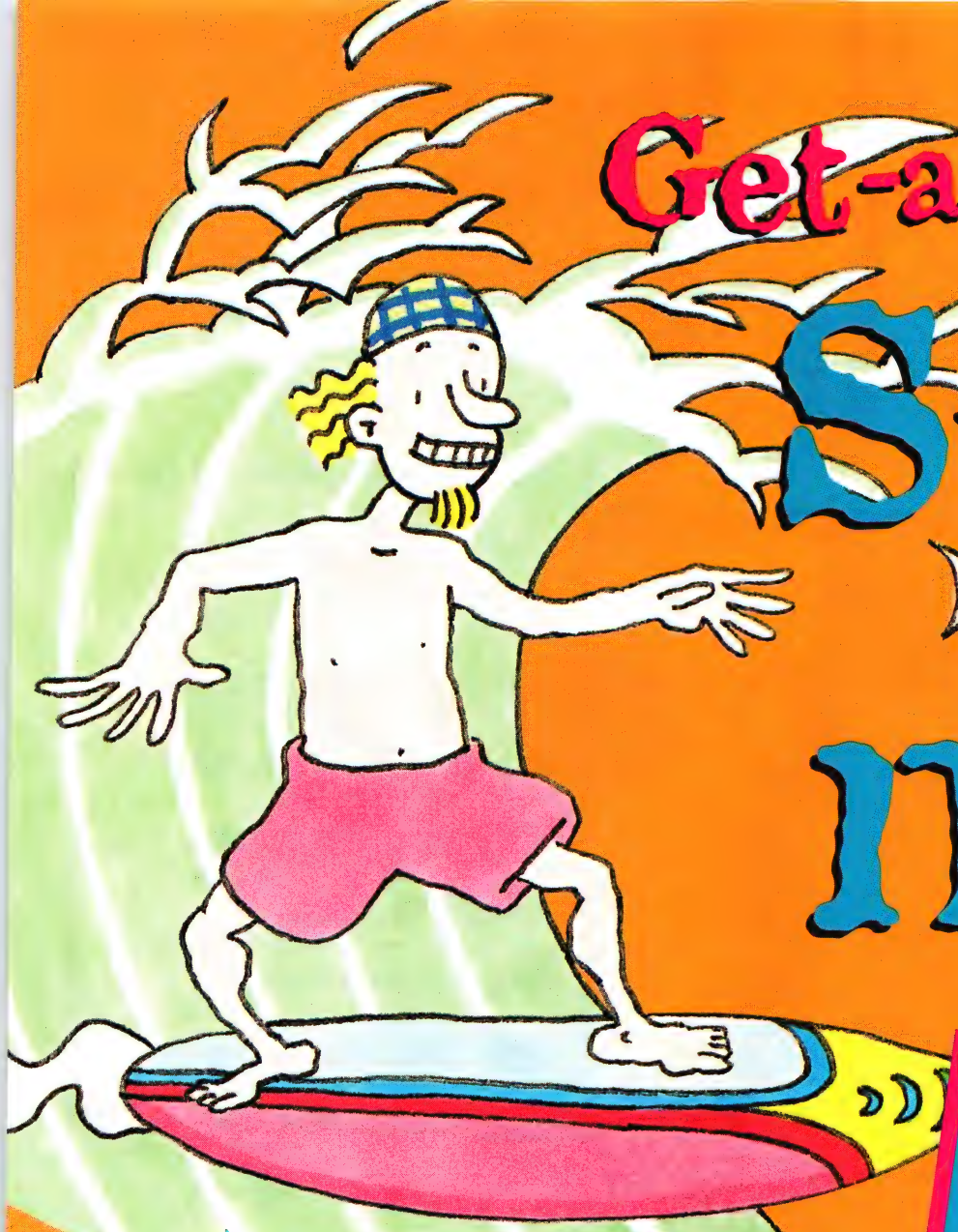
Another surprise was the free upgrade to a 4Mb Matrox Millennium 2 graphics card and 240W speakers!

I felt compelled to write to *PC User* to express my delight in finding a company dedicated to quality and service (in a notoriously "iffy" PC market) and at finding a magazine that acknowledges the value and quality of the product.

By the way, the computer really flies and when friends ask about buying one themselves, I can only do the right thing and steer them towards Computers Direct Australia and *PC User* magazine.

Tony Chandler
Katherine, NT.

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Buyer's tips

Buying a PC is hardly a game, but it can sure seem that way. John Hilvert provides his top tips for consumers in a novel fashion.

The point of the game is not so much that fortune plays a large part in getting consumer happiness. Instead, play the game to improve your odds by knowing what to watch for this year.

If you select a brand name PC, you double your warranties under the Trade Practices Act. Both your dealer and your manufacturer are required to provide you with a system that is merchantable or does what it's supposed to do. If your dealer is not around to fix your system, your name brand company or distributor is still liable under federal law.

If you take care in selecting your dealer, you will have a better chance with after sales support. And you can improve your satisfaction if you tell the dealer what you want to use your system for before purchasing it, leading to a 'fitness for purpose' implied warranty.

Astute purchasers will always check the time it takes to get a response on technical support lines before committing themselves to a specific system.

Pre-checking inside a PC can tell you a lot about the quality of assembly and expandability of a system. After taking delivery, astute purchasers always give their systems a full work-out to check everything is working fine, earlier rather than later.

If you buy via mail order or direct delivery, always specify a firm period (usually about 10 days at the most), after which an order is deemed rescinded.

Where pre-payment is required, always do it with credit cards rather than cheque or cash. Credit card companies will usually refund the amount if you fail to get delivery of goods.

Common ways of getting bitten in the game are:

- buying on price alone;
- buying no-name brands from untested dealers and risk ending up with processors that have been over-clocked, re-marked or bogus;
- accepting bundled software without proper license documentation;
- buying PCs during the busy periods of December or June;
- buying additional warranties from companies that have no Australian underwriter;
- Buying clone notebooks without considering the problems of spare parts or after-sales support.

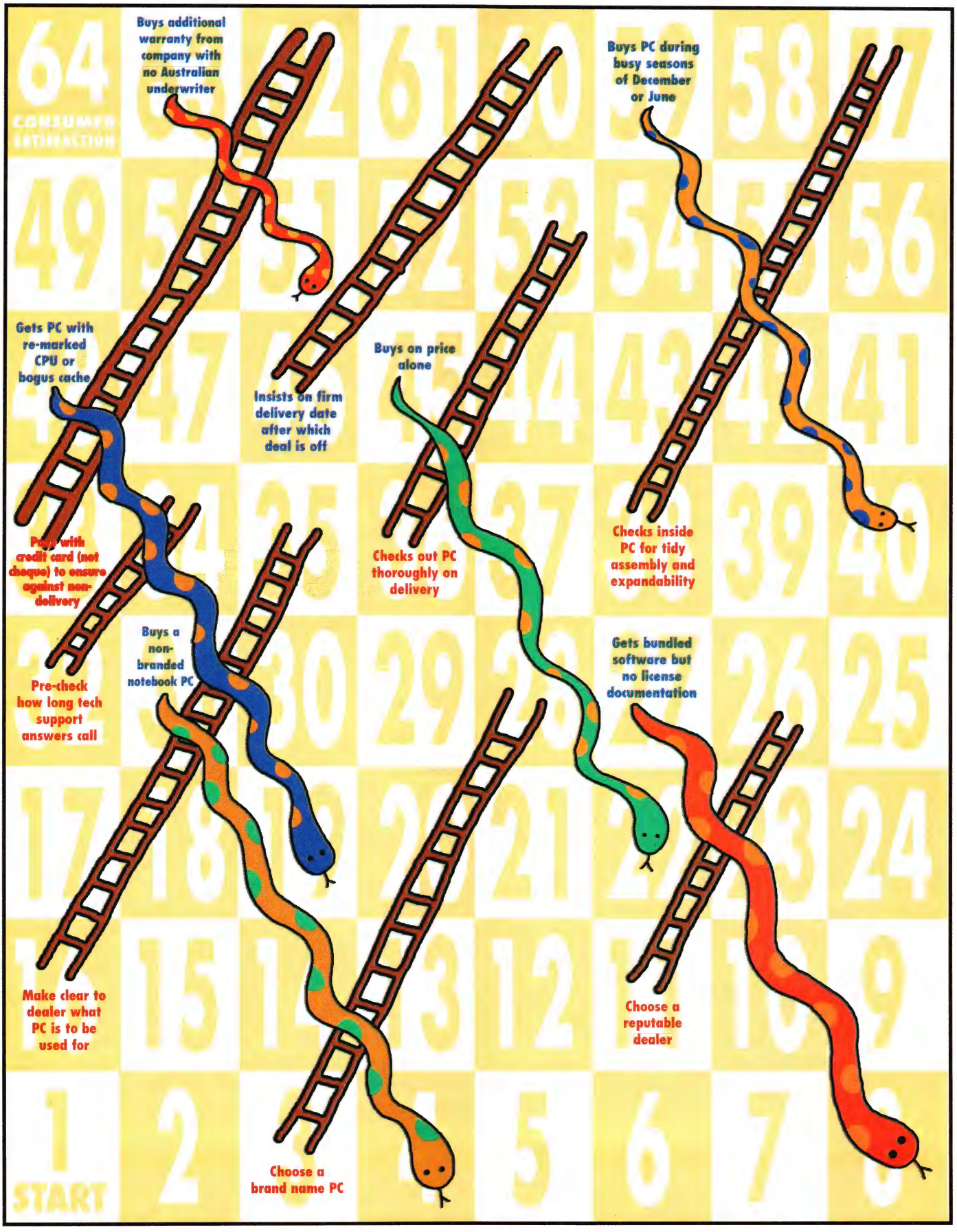
This year, let's play the consumer game more astutely than just throwing a die.

CONSUMER SATISFACTION GAME

This game can be played with a token for each player and a die. The 64 square game comprises squares with numbers, ladders and snakes.

Players take turns throwing a die to find out how many places you advance (from 1 to 6). If you land on the foot of a ladder (a tip), you can climb up to its end.

If you land on the tail of a snake (a trap) you drop back to its head. The first to land exactly on square 64 (consumer satisfaction) wins.


64
CONSUMER SATISFACTION
Buys additional warranty from company with no Australian underwriter
Buys PC during busy seasons of December or June
Gets PC with re-marked CPU or bogus cache
Insists on firm delivery date after which deal is off
Buys on price alone
Pays with credit card (not cheque) to ensure against non-delivery
Checks out PC thoroughly on delivery
Checks inside PC for tidy assembly and expandability
Buys a non-branded notebook PC
Pre-check how long tech support answers call
Gets bundled software but no license documentation
Make clear to dealer what PC is to be used for
Choose a reputable dealer
Choose a brand name PC
1
START

PC Pulse

Each month John Hilvert clues you in on what money is really changing hands for the most common items.

Real clone prices in seven cities

Clone PCs tend to be locally assembled with no national brand, with prices set at about 20 to 30 per cent below national brands to make them attractive. They are promoted cheaply in user group publications or classified advertising sections.

The average advertised prices for each level of system in November are listed in the table 'Average advertised PC prices in Australia'. These are prices of the packages including screens and multimedia. The further up the scale you go, the better the peripherals and add-ons.

Typically a Pentium 166 MMX system will come with 16Mb of RAM, 2Mb of video RAM, a 2Gb drive, 15in display and multimedia.

At the top end a Pentium II system can come with as much as 64Mb of fast SDRAM, a 4Mb video card, 6.4Gb hard drive, 17in display, multimedia with an AWE64 soundcard, as well as bonuses such as printers, scanners, faxes and software.

What CPUs are hot?

A study of 453 computer ads for Intel-based PCs in mid-November disclosed the following distributions of CPU configurations:

CPU	Per cent
Pentium 166 MMX	24
Pentium 200 MMX	21
Pentium 233 MMX	24
Pentium II 233	12
Pentium II 266	13
Pentium II 300	7

Auction prices

Perhaps you want to estimate the value of your current system for insurance purposes — you might want to know how much you might sell it for. Maybe you want to try a flutter on the second-hand or auction market.

These are the low and high prices fetched for second-hand PCs and peripherals during September '97 at Hymans computer auctions.

These prices are the net return to the vendor. Typical sale prices (buyer's premiums) may be as much as 20 per cent on top of the these.

Brand name pricing

This month we compare pricing of first tier direct order companies, Dell and Gateway.

We have sought quotes on an entry-level PC Pentium 166 MMX system as well as a high-end Pentium II 266MHz with the works.

High-end configuration: Intel 266MHz Pentium II Processor, 512Kb Integrated L2 Pipeline Burst Cache, 64Mb SDRAM, 8Gb Ultra ATA HDD, 1.44Mb 3.5in Diskette Drive, Zip Drive, minimum 12X CD-ROM drive, AWE64 or Ensoniq PCI card, speakers and subwoofer, 4Mb video card, 17-19in screen, Full Tower Case, two USB Support, one Parallel, two Serial, one PS/2 keyboard, one PS/2

What are the hot sites?

Top 20 sites visited

1. www.geocities.com
2. www.microsoft.com
3. www.yahoo.com
4. www.hitbox.com
5. www.excite.com
6. home.netscape.com
7. www.hotmail.com
8. www.aol.com
9. www.altavista.yellowpages.com.au
10. www.altavista.digital.com
11. home.microsoft.com
12. www.asx.com.au
13. www.infoseek.com
14. www.anzwers.com.au
15. www.msn.com.au
16. www.the-park.com
17. www.wbs.net
18. www.bekkoame.or.jp
19. www.hotbot.com
20. www.tripod.com

Top 20 Australian Web sites

1. www.altavista.yellowpages.com.au
2. www.asx.com.au
3. www.anzwers.com.au
4. www.msn.com.au
5. www.whitepages.com.au
6. www.theage.com.au
7. www.abc.net.au
8. www.theaustralian.com.au
9. www.smh.com.au
10. www.market.fairfax.com.au
11. www.tradingroom.com.au
12. www.yellowpages.com.au
13. www.village.com.au
14. www.microsoft.com.au
15. www.tradingpost.com.au
16. www.rsvp.com.au
17. www.afr.com.au
18. www.telstra.com.au
19. www.ninemsn.com.au
20. www.commbank.com.au

Average advertised PC prices in Australia

PC	Sydney	Melbourne	Brisbane	Adelaide	Perth	Canberra	Hobart	Average
P166 MMX	$1435	$1605	$1562	$1512	$1633	$1567	$2346	$1666
P200 MMX	$1648	$1900	$1731	$1652	$1845	$2073	$2300	$1879
P233 MMX	$1941	$2085	$2014	$2161	$2059	$2158	$2450	$2124
PII 233	$2657	$2818	$2766	$2149	$2702	$2696	$2950	$2677
PII 266	$3170	$3010	$3009	$2813	$2990	$3399	$3100	$3070
PII 300	$3618	$3675	$N/A	$2763	$3431	$3968	$3400	$3476

Desktops

CPU	Details	Low	High
386DX	386DX/33 CPU, 8Mb RAM, 120Mb HDD, 1.44Mb FDD	$5	$30
486DX	486DX/33 CPU, 8Mb RAM, 200Mb HDD, 1.44Mb FDD	$40	$70
486DX2	486DX/66 CPU, 8Mb RAM, 270Mb HDD, 1.44Mb FDD	$125	$200
486DX4	486DX4/100 CPU, 8Mb RAM, 500Mb HDD, 1.44Mb FDD	$200	$300
P75	Pentium 75 CPU, 16Mb RAM, 42Mb HDD, 1.44Mb FDD	$300	$400
P100	Pentium 100 CPU, 16Mb RAM, 800Mb HDD, 1.44Mb FDD	$450	$550
P120	Pentium 120 CPU, 16Mb RAM, 1Gb HDD, 1.44Mb FDD	$400	$500
Acer	P100 Aspire Pentium 100 CPU, 16Mb RAM, 1Gb HDD, 6X CD-ROM, 28.8Kbps modem, 1.44 FDD	$450	$525
Acer	P133 Aspire Penium 133 CPU, 16Mb RAM, 1Gb HDD, 8X CD-ROM, 33.6Kbps modem, 1.44 FDD	$500	$600
Acer	P166 Aspire Pentium 166 CPU, 16Mb RAM, 1Gb HDD, 8X CD-ROM, 33.6Kbps modem, 1.44 FDD	$550	$650

Laptops

Brand	Details (mono screens unless otherwise noted)	Low	High
Toshiba	T1200XE, 1Mb RAM, 20Mb HDD	$20	$40
Toshiba	T1600, 1Mb RAM, 20Mb HDD	$20	$40
Toshiba	T2000SX/40, 4Mb RAM, 40Mb HDD	$50	$80
Toshiba	T2200SX, 386SX/20 CPU, 4Mb RAM, 80Mb HDD	$80	$120
Toshiba	T3100SX/80, 4Mb RAM, 80Mb HDD	$40	$70
Toshiba	T3200SX, 4Mb RAM, 40Mb HDD	$90	$125
Toshiba	T5100, 4Mb RAM, 40Mb HDD	$40	$80
Toshiba	T5200, 4Mb RAM, 40Mb HDD	$40	$80
Toshiba	T1910CT, 486DX/33, 8Mb RAM, 120Mb HDD	$250	$350
Toshiba	T1960CT, 486DX2/50, 8Mb RAM, 210Mb HDD, active colour	$450	$600
Toshiba	T4900 CT, 24Mb RAM, 800Mb HDD, 4X CD-ROM, active colour, 2X PCMCIA	$750	$1000
Toshiba	Satellite 400CDT, Pentium 75, 16Mb RAM, 800Mb HDD, 4X CD-ROM, active colour	$1000	$1300
Toshiba	T610CT, Pentium 133, 16Mb, 720Mb HDD, active colour	$1700	$2100
Toshiba	T720CDT, Pentium 133, 16Mb RAM, 1.2Gb HDD, 6X CD-ROM, active colour	$1800	$2250
IBM	Thinkpad 486SL25, 123Mb RAM, 270Mb HDD	$200	$275
Compaq	Contura 486SX/25, 8Mb RAM, 120Mb HDD	$150	$225
Compaq	Contura 486DX/25, 8Mb RAM, 120Mb HDD	$175	$250
Ipex	Ipex 66A, 486DX2/66, 8Mb RAM, 235Mb HDD, active colour	$450	$600
Ipex	Ipex 66, 486DX2/66, 8Mb RAM, 340Mb HDD	$300	$450
NEC	486SX/25 8Mb RAM, 120Mb HDD	$150	$200
NEC	Versa 486SL/25 8Mb RAM, 120Mb HDD, active colour	$300	$400

Printers

Brand	Details	Low	High
HP	DeskJet	$40	$60
Hp	DeskJet 340	$125	$200
Hp	LaserJet series II	$75	$125
Hp	LaserJet series III	$125	$200
HP	LaserJet series IIID	$150	$250
HP	LaserJet series IIISi	$225	$300
HP	LaserJet 4	$200	$300
HP	LaserJet 4M	$375	$600
Gestetner	GLX800 Laser	$30	$80
Canon	LBP8111 Laser	$50	$100
Canon	LBP8-IV laser	$125	$200
Canon	BJC 800 inkjet	$100	$150
Canon	BJ 330 bubblejet	$40	$70
Canon	BJ 210c bubblejet	$70	$110
Canon	BJ 200 bubblejet	$50	$80
Canon	BJ 10SX bubblejet	$30	$50
Epson	Stylus Color Pro upgradable inkjet	$60	$110
IBM	4019 laser	$50	$80
IBM	4029 laser	$80	$120
TI Micro	TI Microlaser 4 PPM Desktop laser	$70	$100

Monitors

Brand	Details	Low	High
14V	14in VGA	$20	$40
14S	14in SVGA	$50	$90
MON14D	14in digital monitor	$80	$110
MON15S	15in SVGA	$90	$120
MON17D	17in digital monitor	$175	$300
MON20D	20in digital monitor	$400	$700

Hard drives

Brand	Details	Low	High
HD270	270Mb	$10	$20
HD420	420Mb	$40	$70
HD540	540Mb	$70	$100
HD100	1Gb	$100	$130

CD-ROMs

Brand	Details	Low	High
CD/4	4X CD-ROM	$30	$50
CD/6	6X CD-ROM	$40	$60
CD/10	10X CD-ROM	$50	$80

Modems

Brand	Details	Low	High
MOD288	Fax/modem 28.8Kbps	$30	$60
MOD336	Fax/modem 33.6Kbps	$50	$80

mouse, one AGP, one ISA, three PCI and one shared PCI/ISA slot, 104-key Windows 95 keyboard, Microsoft Windows 95, Microsoft Office 97 — Professional Edition.

Total price: Gateway — $5521; Dell — $4714.

Entry-level configuration: Pentium 166 MMX, 512Kb cache, 32Mb RAM, 2Gb HDD, 1.44Mb 3.5in FDD, 12-24x CD-ROM, Sound Blaster 16, speakers, 2Mb video, 15in monitor, desktop case, two Coms, one parallel, keyboard and mouse, Win 95.

Total price: Gateway — $2499; Dell — $2588. ❑

Of all the ways the BJC-7000 revolutionises printing, the most dramatic is

the P-POP difference.

"Absolutely breathtaking" photographic printing. "Capabilities never before seen..." Then there is the big difference! P-POP.

"CANON PUSHES STATE OF THE ART..."[1]

P-POP is Plain Paper Optimised Printing. As the "printer industry bible" (Hard Copy Observer) says, it "...pushes state of the art...",[1] to completely change plain paper print quality.

An all new approach. P-POP bonds an invisible ink optimiser to the paper before inks are applied. The inks, in turn, bond to the optimiser.

This dramatically reduces ink diffusion. Text and lines are better defined, colours are more vibrant and tones are sharper because the inks are not mixed in an unwanted way.

100% water resistant. P-POP also extends document usability.

Colours and blacks are far less likely to fade. And print-outs become water fast.

P-POP™ Water Resistance

Multiple ink systems, 1200 dpi. The BJC®-7000 can use either of two colour systems with the black and ink optimiser cartridge. One system uses conventional CMY inks[2], and prints with resolution up to 1200 dpi, so that even photos can be reproduced with extraordinary quality on plain paper with conventional inks using P-POP.

"ABSOLUTELY BREATHTAKING" PHOTOGRAPHIC PRINTING.

The other system is second generation PhotoRealism. As Hard Copy Observer says, "...(it) is absolutely breathtaking...".[1]

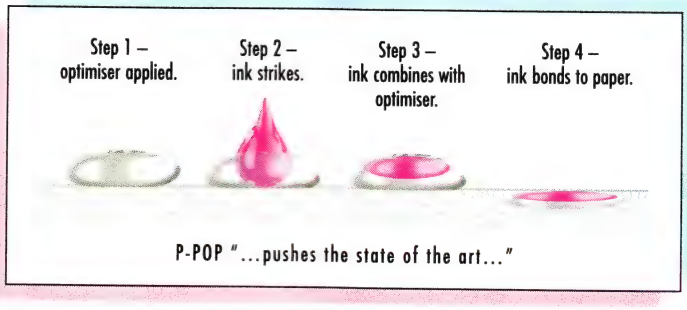


The first "7-colour process". The secret is the PhotoRealism colour ink cartridge, included as standard. It uses a seven-ink process, conventional CMY, new lower density CMY inks, plus black. Also, thanks to P-POP it is the first low-density ink system that can be used on plain paper.

Photo Realism™

1. U.S. Hard Copy Observer, August 1997. 2. Optional BC-61 CMY ink cartridge. 3. Speed is an estimate and, for comparability, is based on a competitive manufacturer's colour retail price, including tax. Canon Australia Pty Ltd ACN 005 002 951. Canon and the Canon logo are registered trademarks and PhotoRealism and P-POP are trademarks

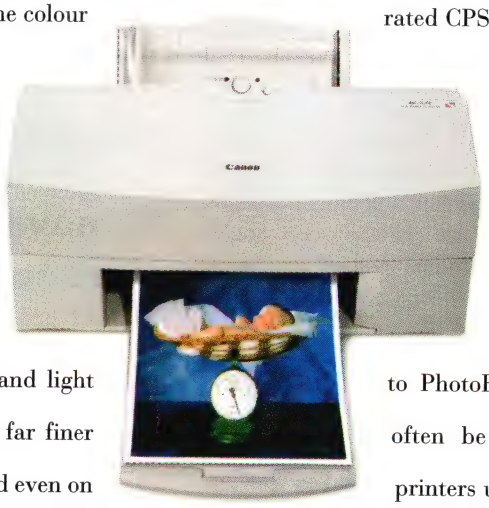
BJC-7000 – $729 RRP



P-POP "...pushes the state of the art..."

A new gold standard. PhotoRealism is not a self-styled "photo-quality mode", but a unique Canon invention that is fast becoming the gold standard of the industry, delivering near silver halide photographic quality.

9000% more colour! The inks can be combined and layered, producing up to nine saturation levels per colour, per pixel. This results in up to 90 times the colour combinations of traditional CMYK inks, and considerably better "process blacks and darks".

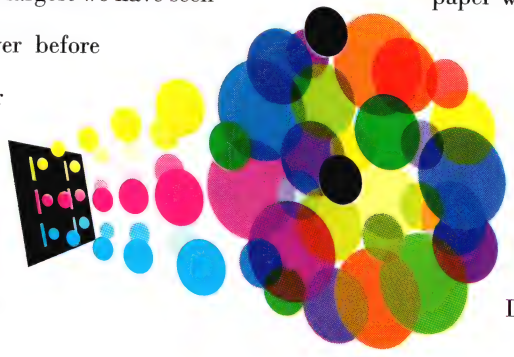


Almost invisible pixels. This, combined with the Canon Colour Image Processing System (CCIPS), completely changes the way both dark and light half-tones are reproduced. Colours have far finer gradations without banding and lines. And even on hard-to-produce light shades such as skin tones and off-whites "...individual pixels in the image are barely visible".[1]

"(CARTRIDGE) CAPABILITIES NEVER BEFORE SEEN..."[1]

Then, the cartridges "...are the largest we have seen ...(offering) new capabilities never before seen in a desktop inkjet printer ...(with more ink nozzles) than any other cartridge in the industry".[1]

50% smaller nozzles. The nozzles are approximately half the diameter of previous models, so the ink drops are far finer. They are then fired at speeds close to 10,000 drops per second, using up to 1088 ink nozzles.



Second generation PhotoRealism produces 9000% more colour combinations for "absolutely breathtaking" results.

Blacks 80% faster. There are 304 nozzles for black alone. This generates speeds up to 720 characters per second with bi-directional printing, and up to four text lines per head pass. Putting this in perspective, this is 80% more than the rated CPS speed of the Epson 800!

480 colour nozzles. There are 480 nozzles dedicated to colour in the PhotoRealism cartridge. (This is 150% more nozzles than the Epson 800.)

The BJC-7000 achieves colour speeds as high as 4 ppm.[3] And, thanks to PhotoRealism, true photographic quality can often be delivered at speeds far faster than printers using only conventional inks at high dpi.

Lower costs, better paper handling. Better plain paper use can obviously lower operating costs. There is also new, full-bleed A4 printing and the ability to print full card stock at paper weights up to 550 g/m2 (0.8mm).

Canon Customer Care. Finally, the BJC-7000 features a one-year warranty, upgradeable to three years for minimal cost, and is backed by our Customer Care hot-line support. Drivers are available for DOS and Windows 3.1x/95.

If you would like to learn more, call us on 1 800 021 167.

text test. Actual speed will vary based on system and other factors. Canon estimates maximum colour graphic performance at 3.5ppm. Price as shown is recommended

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CS/4372

Canon

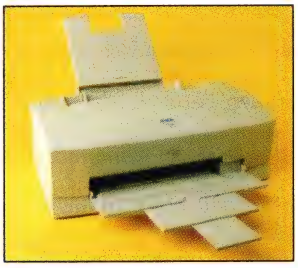
Best Products of 1997

We select the best-value, most valuable and most outstanding new products of the year.

Printers and scanners

Epson Stylus Color 400

It may not be the state-of-the-art inkjet printer, but Epson's Stylus Color 400 is the next best thing. With 720 by 720dpi resolution, true four-colour printing, printing



speed that leaves other sub-$400 printers in its wake — and at just $359 — the Stylus Color 400 is remarkable value. From Epson (02) 9903 9000.

OfficeJet 590

A combined printer, scanner, photo copier, fax and answering machine for just $800? Naturally, you have to expect some compromises from squeezing five devices into one box, but the OfficeJet is from Hewlett-Packard, so there aren't too many. The OfficeJet features four-colour printing at 600 by 300dpi resolution. It can operate as a fax machine and copier without the PC being switched on, and comes with great software to use with the scanner. From Hewlett-Packard 131 347.

Handheld PCs

PalmPilot

It's small enough to fit in a men's shirt pocket, and comes with all the software needed to keep you organised and allow you to take notes. The Pilot also connects easily with your PC and most popular Windows information managers. The Professional



version comes with more RAM and the ability to download Internet e-mail via an optional clip-on modem. $499 for the PalmPilot Personal, $599 for the Professional, from 3Com (03) 9934 8888.

Removable storage

TraxData CDR 2600 CD-R kit

It's cheaper and easier than ever to cut CDs, for backups or your own audio or multimedia CDs. At just $629, this CD-R (CD Recordable) kit is great value. And with 640Mb CD-R discs costing as low as $10, is there a better-value way to store data? From TraxData (02) 9956 6660.

Hardware upgrades

Diamond Viper V330

Looking to upgrade your PC's graphic's performance and add 3D capability for the hottest new games? With its great business graphics and 3D games performance, excellent display utilities and good array of bundled games and software, the Viper330 is great value. $450, from Diamond Multimedia.

Creative PC-DVD Encore Dxr2

Looking to replace your CD-ROM drive? Although a bit on the expensive side at $799, this DVD drive will future-proof your purchase. There's no doubt that DVDs (Digital Versatile Discs) will replace CD-ROMs in the near to medium term, but DVD drives will also play standard CD-ROMs. The PC-DVD Encore is the best-value of the early complete DVD packages on the market, comprising a double-speed DVD drive (equivalent to a 20x CD-ROM drive), it comes with the necessary decoder card and some DVD games to get you started. From Creative Pacific on (02) 9906 8887.

Novastation

Sure the best way to upgrade your PC's sound is with a soundcard such as the Creative AWE-64. But there's another way to add Wavetable synth to an existing 16-bit soundcard — with this software upgrade. At $99, the Novastation is outstanding value and, being software,

New Super Economy mode lowers costs in colour and B&W to print

page after page after...

For just $199 RRP, the new BJC®-210SP delivers both Photo Mode quality colour, and black & white at a speed comparable to a personal laser. It also helps lower operating costs in two ways.

Use 75% less ink. A new Super Economy mode has been developed.

It reduces ink consumption by 75% compared to Standard mode, and works in both black and white and colour printing.

Bigger black cartridge. In addition, there's the new high capacity black ink cartridge that holds 20% more ink than our previous cartridge, yet costs no more.

Up to 5 times the output. Combine these two features and the new BJC-210SP can print up to 2400 pages in black and white, and up to 600 in colour.

That's anywhere from two to five times the output of any direct competitor!

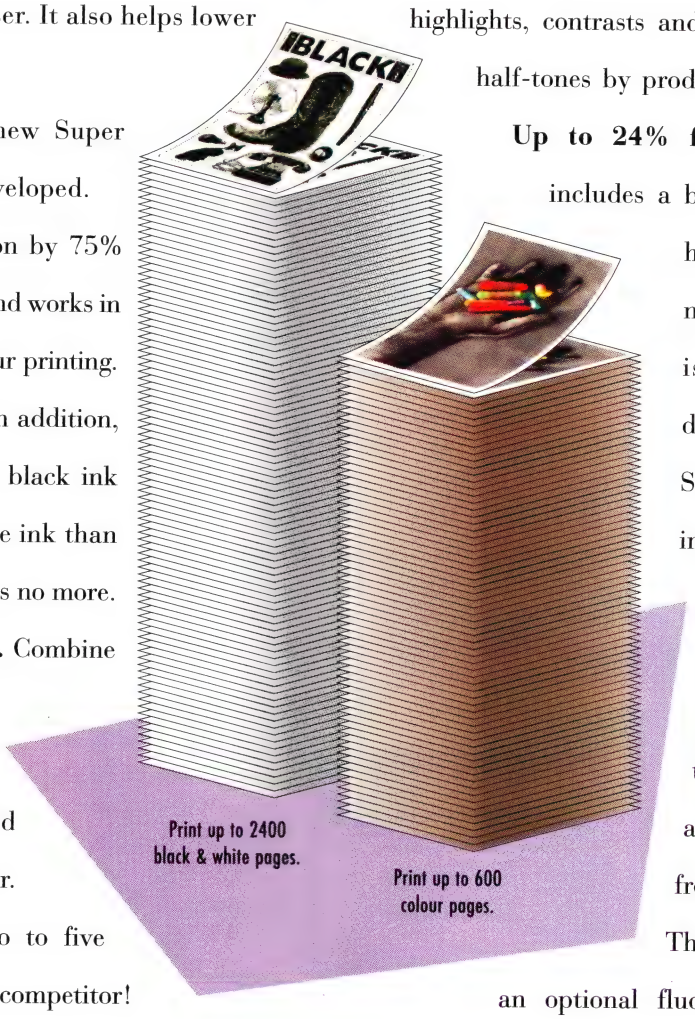


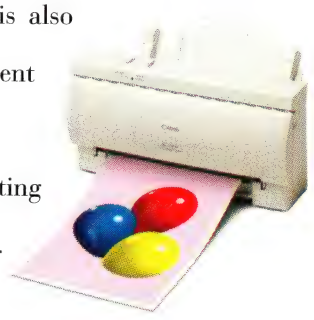
Photo Mode quality printing. Using the colour cartridge, included as standard, the BJC-210SP offers a choice of three high quality print modes – Normal, Fine and Photo.

Advanced half-tones. Photo Mode uses the Canon Colour Image Processing System (CCIPS) to emphasise highlights, contrasts and shadows and visibly improve half-tones by producing a richer process black.

Up to 24% faster. The BJC-210SP also includes a black cartridge as standard. It has up to twice as many print nozzles as direct competitors, is up to 24% faster[1] and delivers resolution up to 720 dpi. Speed and quality are equally impressive in colour.

Canon Customer Care. All Canon printers feature a one-year warranty, upgradeable to three years for minimal cost, and are backed by hot-line support from our Customer Care staff. There is also an optional fluorescent ink cartridge for high impact.

For more information on cutting printing costs call 1800 021 167.



1. B&W speeds based on manufacturer's actual characters per second ratings. Price as shown is the recommended retail price, including tax. Canon Australia Pty Ltd ACN 005 002 951. Canon, the Canon logo and BJC are registered trademarks of Canon Inc. All other trademarks are the property of their respective owners. CS/4895

Now only $199 RRP

Canon

installation is easy. From Auslink 1800 686 400.

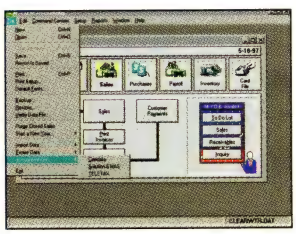
Productivity and business software

ClarisWorks Office 5.0

Microsoft Office 97 is still our office suite of choice, while Corel's WordPerfect Suite 8.0 is probably even better value in terms of features per dollar. But do you really need all that software? A better option for many home and small business users is this works package, which has most of the features of big suites but without the cost, system requirements and learning curve. Even if you're shopping around for a major suite, check out this new version of ClarisWorks — chances are it's got everything you want. $174, from Claris 1800 028 316.

M.Y.O.B. 7.0

The best small-business accounting package has been improved with this new version. It has every feature just about every small business will ever need, yet it remains easy to use. $399 ($525 with Payroll), from Data-Tech Software (02) 9770 9000.



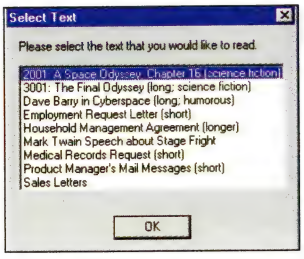
Quicken 6.0 Deluxe and Money 97

These two great personal finance packages continue to impress with their power, ease of use and value. For simple needs, Money 97's great interface makes it the best choice. But Quicken Deluxe, with its invoicing and other extras, is the better all-round choice for serious users.

Quicken Deluxe: $99, from Intuit Australia (02) 9562 7922. Money 97: $50, from Microsoft, (02) 9870 2200.

Dragon NaturallySpeaking

The potential of being able to dictate your documents to your computer has been tantalisingly close, but voice recognition software has been let down by inaccurate results and the need to talk like a robot.



Well, NaturallySpeaking takes us much closer to the 'virtual secretary' ideal by enabling us to talk in a natural, fluent style. The results also are better than with previous packages — although you still need to spend a fair bit of time 'training' the software to your way of speaking. $599, from Dragon Dictate Systems 1800 063 243.

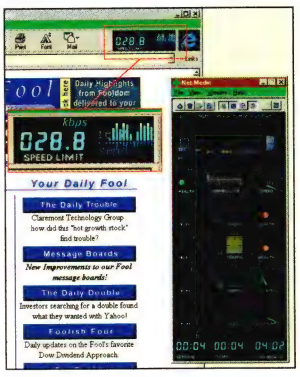
WinFax Pro 8.0

There's no need to buy a fax machine and answering machine for your home office — if you've got a PC and fax modem, this great package will do both these tasks easily. Small businesses will also appreciate just how easy mass faxing can be. $149 from Symantec, (02) 9850 1000.

Internet software

Internet Explorer 4.0

Sure it's not perfect, but with a browser that supports the latest Web technology, excellent e-mail and newsgroup reader, built-in conferencing and collaboration, cut-down version of the FrontPage authoring program and more, IE 4.0 has surged ahead of Netscape as the best browser/Internet suite. Throw in the new features it adds to the Windows 95 operating system and the fact that it's absolutely free — well, has there ever been a better bargain?



Net.Medic

If you're a keen Net user, this great little utility will keep you informed about what's really going on with your Internet connection — and fix most problems. $99, from LAN Systems on 1800 646 112.

FrontPage 98

It may have pinched some ideas from that other excellent Web authoring package, NetObjects Fusion, but if you want to develop and maintain a Web site without the need for programming, FrontPage 98 is now the best-value solution. $149 from Microsoft, (02) 9870 2200.

Utilities

UnInstaller 4.5

Don't rely on the 'uninstallers' that come with Windows programs (if they have this feature at all). They usually do only half the job of getting rid of all the files and system file entries added by each program. That makes a commercial uninstaller virtually essential — and UnInstaller 4.5 is the best of these. $65 from Marketing Results (02) 9899 5888.

Norton Utilities 2.0

Norton Utilities has long been an essential toolkit for anyone who values their system, and this version is no different. It

Brilliant colour, PhotoRealism and an extra large print head for

faster blacks.

When it comes to versatility, the BJC®-4200 is ahead of its class.

Four printing systems. It accepts a choice of four different cartridge-based printing systems, designed to tailor your output to your printing needs. Two are included in the box as standard.

Photo quality CMYK. The first standard system is four-colour process printing, with driver settings for Economy, Text and Photo. The Canon Colour Image Processing System (CCIPS), and resolution up to 720 dpi, gives you outstanding half-tones by combining pure and process blacks.

Blacks at twice the speed. The other standard system, specifically for black & white correspondence, is an unusual feature.

It is a dedicated, extra large black ink cartridge with 128 print nozzles capable of printing two text lines at speeds up to 510 characters per second.

Don't be confused. Many manufacturers make all sorts of claims about pages per minute. But, in reality, using their own characters per second ratings, you'll find that the BJC-4200 can be more than twice as fast! (Also see output chart.)

Canon's exclusive PhotoRealism. Third, there is Canon's unique PhotoRealism. This option is more than just a claim, it is fast becoming the photo quality printing gold standard.

500% more colour combinations. Special low-density inks can vary the amount of saturation per pixel so that a single dot could have 0%, 33%, 67% or 100%. This produces up to five times as many colour combinations as conventional CMYK inks.

Virtually no pixelisation. The result is better half-tones and more subtle colour gradations, with almost no visible grain and dots, even in areas of low colour density.

Canon Customer Care. All Canon printers feature a one-year warranty, upgradeable to three years for minimal cost, and are backed by Customer Care hot-line support. Finally, our fourth ink system, Fluorescent ink, is also an option, and drivers are available for DOS, Windows 3.1x/95 and Windows NT.

If you would like to learn more about tailoring the highly versatile BJC-4200 to your printing needs call us on 1 800 021 167.



Price as shown is the recommended retail price, including tax. Canon Australia Pty Ltd ACN 005 002 951. Canon, the Canon logo and BJC are registered trademarks and PhotoRealism is a trademark of Canon Inc. All other trademarks are the property of their respective owners. Competitive print speeds are the actual published character per second ratings of the respective manufacturers.

CS/4896

Now only $299 RRP

Canon

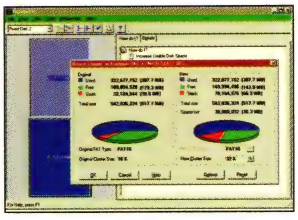
keeps tabs on and fixes a number of system functions, your hard disk, Windows 95 Registry and much more. $129, from Symantec (02) 9879 6577.

Thunderbyte

One of the most reliable virus scanners around, Thunderbyte will detect and clean all known viruses and guard against new and unknown viruses. $99 (special offer for *PC User* readers until end of January 1998), from Thunderbyte (07) 3204 5000.

Partition-It

The large hard disks in today's PCs really should be partitioned to reduce wasted space. Unfortunately,



Windows 95 doesn't make this easy. Enter Partition-It which does the job quickly and easily. $100, from Quarterdeck (02) 9545 4072.

Graphics, DTP and multimedia

Microsoft Publisher 97

The easiest to use desktop-publishing package, yet with features that go close to matching the high-end packages — and in some ways, such as Web authoring, it surpasses them. At $95, Publisher is a fraction of the cost of the high-end packages. From Microsoft, (02) 9870 2200.

Photo Impact 4

The best-value image-editing software is in some ways better than PhotoShop, the choice of professionals. It's easier to use, and in particular this new version's ability to create Web-friendly graphics is astounding. $195, from Lako Vision (03) 9525 3899.

VideoWave

This video-editing program breaks new ground — not in terms of features, because it's certainly not the choice for professionals or serious amateurs. But for beginners VideoWave makes this complex task easy. $199, from Marketing Results (02) 9899 5888.

Games

Jedi Knight: Dark Forces II

A formidable and welcome entrant to the genre of 3D shooters, Jedi Knight is one of the year's best games. The addition of Force powers make multiplayer deathmatches a very entertaining proposition. $90, from Metro Games (03) 9329 2999. Classified M15+.

Virtual Pool 2

Very nearly the perfect simulation game. Details such as markers on cue balls and tables help you improve your game, while the interface replicates the feel of wielding a cue — and you just don't get that on any other sporting sim. $90, from Metro Games (03) 9329 2999. Classified G.

Dark Reign: The Future of War

If you're into real-time strategy, then this realistic war game is currently the best. $90, from Activision (02) 9869 0955. Classified G8+.

Educational software

Piano Discovery Software Year One

At $199, this Windows CD-ROM is the most economical way to teach your children music. It contains the equivalent of one



year of piano lessons, pitched at either a child's or an adult level. From Moore Music (03) 94190344

Phonics Alive 2 The Sound Blender

An excellent Australian program, this sequel to Phonics Alive 1! teaches double sound blends in initial, medial and final positions. These skills are usually covered in School Years 2-5 and are essential for students to confidently decode unknown words and spell correctly. $89.95, from Advanced Software (02) 9997 7977

Keywala's Typing Adventure

Not only is this tops for teaching teenagers essential keyboard skills so they can type projects quickly and easily, the quest keeps them laughing as they go. This Windows CD-ROM is also great for people all ages to brush up their typing speeds. $99 from TypeQuick (02)9498 7433

The best of the rest

There are several more products which were worthy of recommendation this year. For example, Computer Direct's $2500 PC reviewed in the September 1997 edition was excellent value, but it has already been upgraded (check out next month's PC comparison). Riven, the sequel to great adventure game Myst, was certainly worth the wait, but we just couldn't squeeze it into our top three games of the year (see last month's games feature). We were impressed by US Robotics' Sportster Flash X2 modem for just $269, but we're loath to recommend any 56Kbps modem while there isn't a ratified industry standard (even though the Sportster is easily upgradable to the new 56K standard). Watch for our 56K modem's feature soon after the industry standard is ratified this year. ❑

The other half of your portable office, because it can be both

a printer and scanner.



IrDA cable-less communication for printing and scanning.





Read the features and you'll swear the BJC®-80 would use half your desktop, not half your briefcase.

Breakthrough colour technology. It's hard to believe that colour this good can come from a printer so small.

But, that's what you get with a patented new process called Drop Modulation Technology.™

Two ink drop sizes. It produces dual drop sizes in all four CMYK inks, in resolutions up to 720 dpi. The result is smoother colour gradations and less grain on all paper types.

High speed blacks. In seconds you can switch to a special, black only cartridge with 128 print nozzles. It offers laser-like speed and text smoothing for highly finished correspondence.

Send a fax, scan in colour. Next there's the optional colour scanner head. You can simply substitute it for the printer head. There is a high-speed mode for faxing* and a high definition mode. The latter is ideal for colour graphics and OCR, and reads up to 360 dpi, 128 monochrome levels for OCR, and 64 colour levels for RGB.

IrDA for wireless operation. The BJC-80 accepts an optional battery pack as well as standard power. And to make your life easier, it comes with a Windows 95 infrared IrDA compatible port for cable-less communication.

Better Internet images. The BJC-80 even includes an Image Optimisation feature that reduces the jagged images and faded colours common to Internet images, and works with a variety of graphic applications.

Canon Customer Care. The BJC-80 features a one-year warranty, upgradeable to three years for minimal cost, and is backed by Customer Care hot-line support. Drivers are available for both Windows 3.1x/95 and Windows NT.

To learn more about the other half of your portable office, call us on 1 800 021 167.

*Fax function requires appropriate software and Windows 95. Price as shown is the recommended retail price, including tax. Canon Australia Pty Ltd ACN 005 002 951. Canon, the Canon logo and BJC are registered trademarks and Drop Modulation Technology is a trademark of Canon Inc. All other trademarks are the property of their respective owners. CS/4446

BJC-80 – $499 RRP

Canon

Business tips

Having an efficient office is easy with Helen Bradley's handy hints.

Steps to building a Web site

Once you've decided you want to be on the WWW (World Wide Web) you need to build your site. You might opt to do this in-house (if you have the necessary skills) or to employ an outside consultant. In either case the steps are similar. Begin by deciding what the site is to do, its aims and objectives. Then brainstorm all the possible things that should appear on it. Cull and prioritise these in light of your aims and objectives until you have a clear idea of what the site will contain. Organise this into a site plan. Typically this is a hierarchical format (although there will be cross links from page to page as well).

With the site plan you can prototype your page layout. You'll generally find that your site can be condensed down to a few typical page layouts. Decide what these will look like and make sure that there's consistency across the layouts so that they all look like they belong to the site. When the prototypes are agreed on you can create the pages and upload them to your site. In the meantime, if you haven't got your own server, you should have sourced a provider so that you have a place to store your site. You'll also need to have registered your domain name. The final steps involve rigorous testing of the site, publicising it and then ongoing maintenance. Expect to regularly update your site and, once every 12 to 18 months, give it a total make over.

Software issues

Software is, like the hardware it runs on, a business investment. Before you buy, determine what your business need is and how the software will help meet that need.

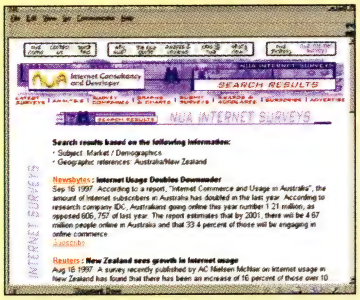
Appoint a person or people to look at the software you're considering. Always consult the people who will use the software day to day as they've specialist knowledge of how the software should operate to complete your business processes. Also consult a person familiar with your computer system so that you ensure the product will work on your system. Consider the range of possible packages and choose the one that best fits your needs.

If possible, have the software demonstrated by someone familiar with its use and trial it with real life data from your business. Test typical transactions and some non-typical ones so you can see how it will perform for your business. Take the time to evaluate each purchase carefully. If you make a mistake you'll lose not only the cost of the software, you'll also lose the time and effort spent coming to the conclusion that the package was wrong for you.

Use your customer database

Any business can benefit from having a customer database which stores information about its customers and their buying habits. From this database your business can get information about which clients buy which products, what they spend, who hasn't bought recently etc. From this, decisions can be made about marketing to these customers. For example, customers who haven't bought recently can be targeted with a special campaign to entice them to return.

Web demographics



Forget the hype about the Internet and how widespread its use is and check out the real facts of Internet use and marketing at this award winning Irish site. The Nua site has an enviable selection of reports on the Internet, in particular in relation to worldwide usage demographics. You can search for information by geographical region and source reports relating to your particular area of interest. There's an impressive amount of Australian and Asian material here. Find the site at http://www.nua.ie/surveys/index.cg

Customers who bought a product can be targeted with information about complementary products or consumables for that item. Using the database will allow you to target your marketing accurately and cost effectively to the people and businesses most likely to respond to it.

A customer database can be created fairly easily using a database package such as Access or Tracker, or you may find that you have the ability to manage most of your needs from your existing accounting or point of sale software.

Backup

Backups are your protection against losing your data through accident, disaster and theft. Your backups should be:

- made frequently — determine what information you can afford to lose (one day, one week, one month etc) and backup with this frequency;
- checked regularly to ensure they are working;
- checked regularly on a machine other than the one they are taken off to make sure they can be read by another computer if yours is destroyed;

With high speed and up to 4 paper feeds you can feed it almost anything.

When it comes to devouring stacks of paper, the BJC®-5500 has no rivals.

More paper feeds. It comes with a tractor feed to accept continuous form (computer paper) as standard, as well as a manual paper feed that will accept all sizes from A5, A4, A3 and A2, through to envelopes, transparencies and labels.



Plus you can add two optional cut-sheet feed trays, for letterhead and standard paper, or almost any other combination.

To do more jobs. Obviously the BJC-5500 has the paper handling to suit almost everyone in the office from accountant to artist, and engineer to receptionist.

Its appeal is further broadened by the fact that the BJC-5500 is also an exceptional four-colour CMYK printer capable of producing text and graphic lines in resolutions up to 720 dpi.

At higher speeds. Whether the accountant needs to produce a long spreadsheet, or you want to print a number of letters, the BJC-5500 delivers. Using the special black cartridge the BJC-5500 can print close to 7 B&W pages per minute in high speed, or more than 5 pages per minute in high quality mode.

It even offers an ultra efficient Economy Mode that reduces ink consumption by 67% vs. high quality mode.

Extra versatile. Both colour and B&W cartridges are included as standard. Drivers are available for DOS, Windows 3.1x/95 and Windows NT. Even a serial interface option is available. In short, the BJC-5500 has enough features to suit everyone's tastes.

Canon Customer Care. All Canon printers feature a one-year warranty, upgradeable to three years for minimal cost, and are backed by Customer Care hot-line support. To find out more about Canon's large paper handling capabilities, call us on 1800 021 167.

Price as shown is the recommended retail price including tax. Canon Australia Pty Ltd ACN 005 002 951. Canon, the Canon logo and BJC are registered trademarks of Canon Inc. All other trademarks are the property of their respective owners.
CS 4854

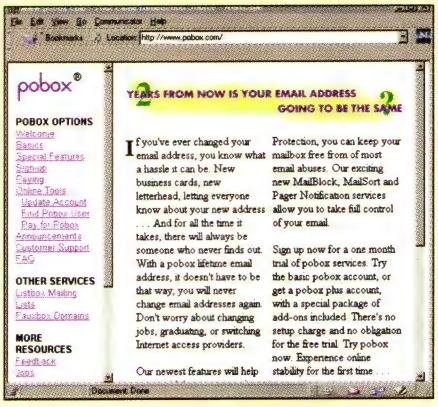
BJC-5500 – $1,499 RRP

Canon

E-mail issues

Small businesses often use personal Internet connections which mean that e-mail addresses identify individuals and not the company, for example, peterc@provider.com.au. This doesn't look as professional as it would if the company had its own e-mail address. One solution to this which doesn't involve changing anything at your ISP is to use a permanent e-mail address from an organisation that sells this service.

Sellers of permanent e-mail addresses allow you to create and maintain multiple permanent e-mail addresses. They receive your mail and forward it on to your current e-mail address which is provided by your ISP. So, when you change address, you simply tell the one organisation and they'll re-route your mail to your new address. Using a service like this, you can create a company e-mail address and even give one to each person in your organisation which is routed to a single e-mail account. If you're doing this, consider giving each person an e-mail address that reflects their job description, such as accpayable@emailroutingservice.com or advertising@emailroutingservice.com, so that if the person leaves or moves to another job the business e-mail is always addressed to the right person. Using an e-mail routing service your organisation can look professional with a minimal budget and you have the freedom to change ISPs without having to reprint stationery such as business cards and letterheads.



You'll find e-mail routing services on the Web including these:

- **Classic Mail:** http://www.classicmail.com/
- **Relay Mail:** http://www.relaymail.net/
- **Pobox:** http://www.pobox.com/

- stored off-site so if your building is damaged you can get to them.

When you're taking backups keep multiple backup sets and don't continually write the new backup over the top of the last. This way, if your most recent backup fails, you will have an older set to use. You should also practise restoring your backups before you need to do it 'for real', so you're familiar with the process.

If making backups is not a fairly easy and straightforward process, it's likely to be overlooked. To make it as easy as possible, always use a tape that can store your entire hard drive so you don't need to swap tapes and set it to happen automatically so it has to happen.

Buying a printer

Before you buy a printer make a list of every type of document that you expect to print with it. From this list you should be able to make some decisions about the printer you need, for example, if you print multi-part forms you'll need an impact printer (such as a dot matrix) which 'hits' the paper with enough force to make an impression on the second and subsequent sheets. If you regularly print on different papers, eg letterhead, plain paper, envelopes etc, then you'll benefit from a printer with multiple bins to store the paper. This way you won't need to continually swap paper, and errors will be reduced where the printer is being shared by a number of people with different printing needs.

When you've short-listed the printers you're interested in, compare the cost of consumables for each. You'll find that there's a significant difference in the cost of, say, toner cartridges between printer brands and models.

Develop a healthy respect

While having an accident and losing all your data is a problem, at least it's something you know has happened. A more insidious and problematical issue is the case of your software making incorrect calculations because of some design fault or incorrect data entered into it.

Problems like this aren't immediately obvious because the program will still work, your data is still there and calculations are being made. However, it may be that the data the calculations are being based on is incorrect. For example, if your mark-up on a product line is 25 per cent, you may have entered this (correctly) as 0.25 in your software. However, if the software expects 25 per cent to be entered as 25, then your mark-ups will be grossly under-calculated.

Problems like this can cost your business dearly. They're difficult to locate but you'll have a better chance of finding them if you periodically do a manual check on the information in key areas of your business, such as inventory, accounting etc, to make sure that the calculations are as you expect.

Where you're at risk

Without doubt computer hackers get the lion share of publicity when it comes to stealing information or wreaking havoc on computer systems. The harsh reality, however, is that it's your own employees who pose your biggest threat. Most damage to computer systems and theft is perpetrated by trusted employees who are in a position where it's possible for them to work against your company as easily as it is for them to work for it.

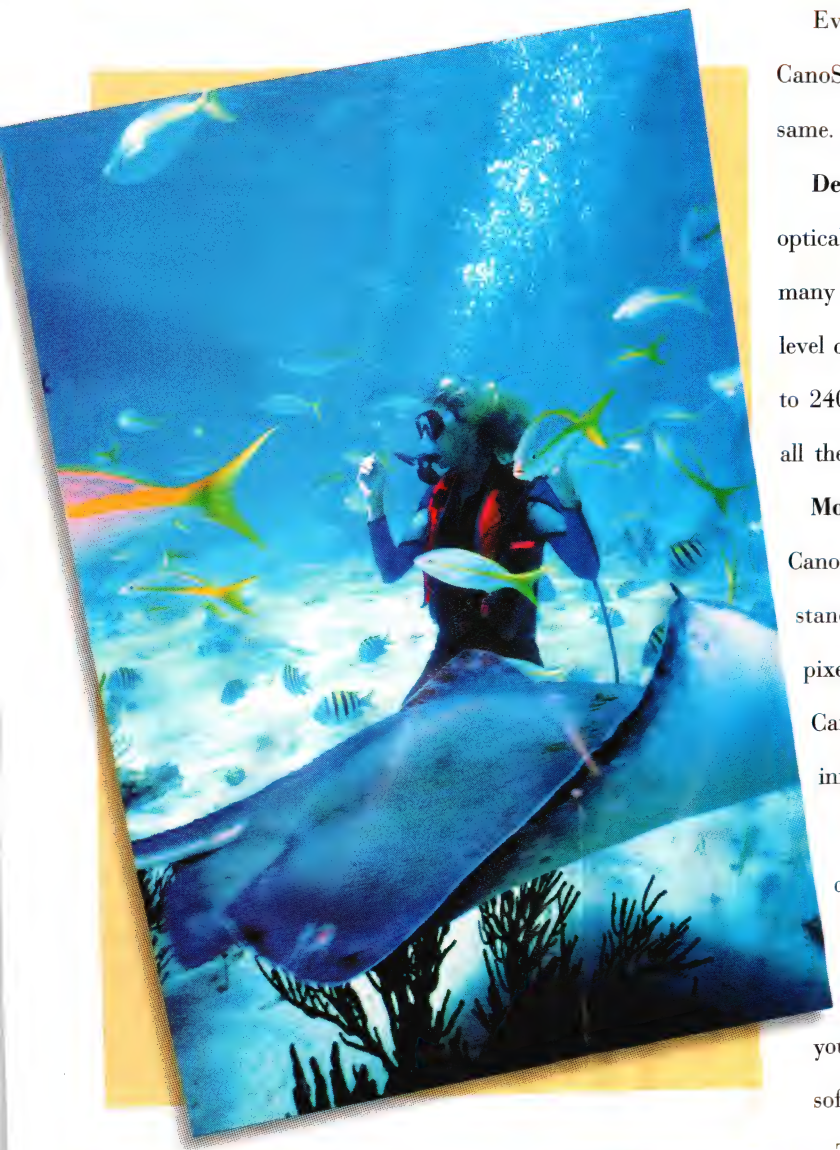
Where most businesses are at risk is in the area of their finances. Most major accounting packages allow you to maintain an audit trail which tracks every transaction. So, for example, if an employee is reversing entries to give 'free product' to friends or family, you can track it through this — provided you check it regularly. Be aware too that your employees can now access confidential data, steal and defraud your business using a computer in the privacy of their offices that in the past they could only have done in the full view of everyone. Become aware of where your business is most vulnerable and take action to reduce the risks.

Don't fry your computer

Sometimes your computer's worst enemy is its electricity supply. Irregularities in the supply, so small you won't be aware of

High optical definition and up to 30-bit colour scanning for

more colour depth.



Even a quick glance at the incredibly small foot-print CanoScan™ range suggests that not all scanners are quite the same. Look more closely and you'll find even bigger differences.

Definition up to 8000 dpi. Canon scanners start with true optical definition as high as 1200 dpi, up to double the level of many direct competitors. This high optical level can then be enhanced up to 2400 dpi, and interpolated all the way to 8000 dpi!



Extremely small foot-print.

More colour depth. Equally important, Canon has discarded the 24-bit colour input standard. Instead, our models scan up to 30 colour bits per pixel, to read as many as one billion colours! This allows Canon scanners to keep only the most useful bits of colour information in each pixel when it comes time for output.

Superior lighting. A unique Xenon lamp further aids our colour quality. It more closely resembles sunlight to provide even illumination and more natural light for better colours.

SCSI included. CanoScan packages come with everything you need to get started. This includes image editing and OCR software, a high-speed SCSI-II interface card & cable, and a TWAIN driver as standard.

Canon Customer Care. All CanoScan scanners feature a one-year warranty, upgradeable to three years for minimal cost, and are backed by Customer Care hot-line support.

If you would like to learn more call 1800 021 167.

Model	CanoScan 300	CanoScan 600
Interpolated Resolution	Maximum: 4800 dpi	Maximum: 8000 dpi
Enhanced Resolution	1200 x 1200 dpi	2400 x 2400 dpi
Optical Resolution	600 x 300 dpi	1200 x 600 dpi
Colour Input	27-bit (9-bits per colour)	30-bit (10-bits per colour)
RRP*	$499	$799

*Prices shown are the recommended retail price, including tax. Interpolation dependent on driver and software used. Canon Australia Pty Ltd ACN 005 002 951. Canon and the Canon logo are registered trademarks and CanoScan is a trademark of Canon Inc.

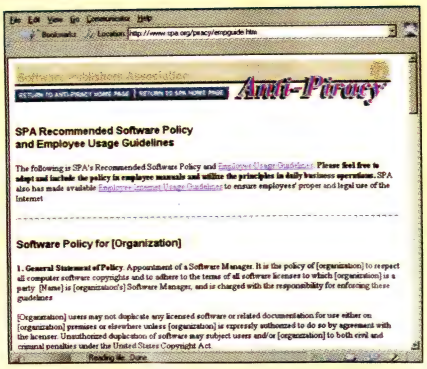
CS/4370

Photo Realism™

Canon

Because it is illegal

Most software that a business buys is not bought 'outright', rather what you're paying for is a licence to use it. The terms of the licence are quite detailed and usually printed in small print in the package that the discs arrive in. Whether or not you read the licence, you are bound by its terms. Under most licences it's illegal to make unauthorised copies of the software and you face prosecution under the Australian Copyright Act, 1968 and fines of up to $250,000 for a business if found guilty ($50,000 and up to six months imprisonment for an individual). Additionally you or your business are also liable to civil prosecution.



To avoid an unpleasant encounter with the law, any business that has computers should firstly familiarise itself with what constitutes software theft, such as making copies of software for purposes other than backup and using a single user licence on more than one computer. You should also have a software policy which prohibits loading software on your computers without authority and which proscribes disciplinary action for breaches. It's good practice to have your employees sign a copy of your policy document as an acknowledgment of them understanding their obligations. Regularly check your computer systems for unauthorised software and remove it immediately if any is found. There are a number of software packages available to help you perform a self-audit of software on your computers.

You'll find more information on what constitutes software theft and some useful usage policies on the Web at:

- **Microsoft Australia Anti-Piracy policy:** http://www.microsoft.com.au/australia/anti-piracy/guide/policy.asp
- **Software Publishers Association Employee Policy:** http://www.spa.org/piracy/empguide.htm
- **Crime Stoppers Online:** http://www.crimestoppers.net.au/

them, will be reducing the lifespan of the components in your computer and the big ones, like lightening bolts, can quite literally fry your computer.

There are a number of options for you to protect your computer system and what's right for you depends on your needs. At the top of the scale is an uninterruptable power supply (UPS), which will give you a constant stream of power through power fluctuations and in the event that the supply ceases altogether. If the power fails, these will usually give you several minutes worth of continued supply during which you can shutdown your computer system gracefully. On the lower end of the scale are surge protectors that fit between the wall socket and the PC and give you an element of protection in the case of power surges.

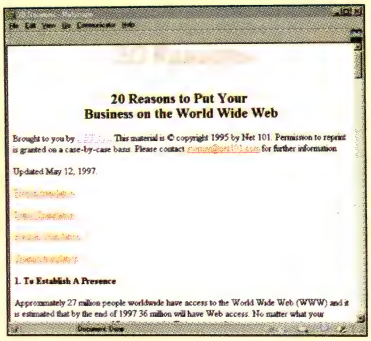
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When it forgets who it is

There may come the day when the PC in your office simply fails to start. The cause will likely be that the battery that backs up the special CMOS memory has failed. This battery backs up information about your computer, such as its disk drives and how much memory it has. The battery itself is simple to replace but you need to reinstate the information that the battery was holding before your PC will work again.

The most critical information is the detail about the hard drive you're using. If you don't have the information at your fingertips, you'll have to find it. To protect against this you should take a note of the information on your computer's setup screen (the information that flashes past as the computer starts up). Turn off the computer at the power switch, switch it on again and watch the screen as it starts up. You'll see a message about keys to press to enter Setup. Press these keys to enter the setup screen. Don't alter anything there, just take a note of all the details from the screen and tape a copy to your system unit so it's right there if you have a battery failure. Exit without making any changes.

Need a Web site?



Many businesses could benefit from a Web site in ways that might not be immediately obvious. Apart from selling products on the Web it's also a handy vehicle for providing information to clients about your products and how they should be used, for keeping in touch with customers and clients and even your own staff members. If you're unsure whether your business could benefit from being on the Web, check out Net101's 20 Reasons Web page at http://www. net101.com/reasons.html

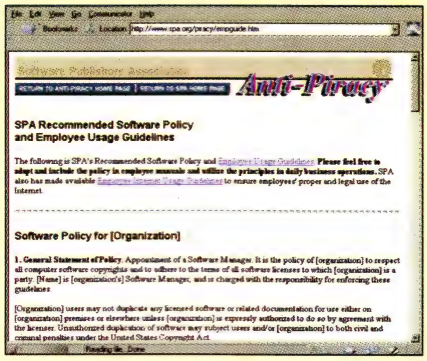
Training

To keep up with the knowledge needed to be competitive, people need to be continually updated in their skills. The advent of desktop publishing packages, for example, has required publishing skills of many people who have not been trained as publishers. Even managers and professionals once serviced by pools of typists are increasingly being expected to 'go it alone' and produce, at least, their own letters, memos and faxes.

If your business is to gain benefits by these changes, and not lose time as people struggle with the unfamiliar, then the cost of training should be a feature of your IT budget. There are a number of ways you can train your employees from self-paced learning materials to hands-on classroom training and one-on-one training focused on an individual's needs. In addition, you'll find there are many training courses on CD-ROM that can be completed at the computer. Whatever method you choose, remember that training is an investment in your business, not an expense

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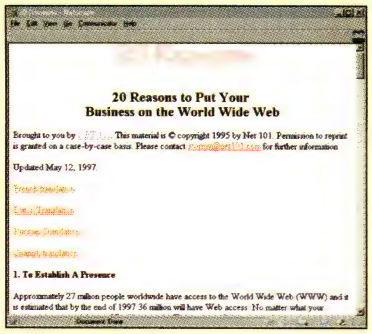


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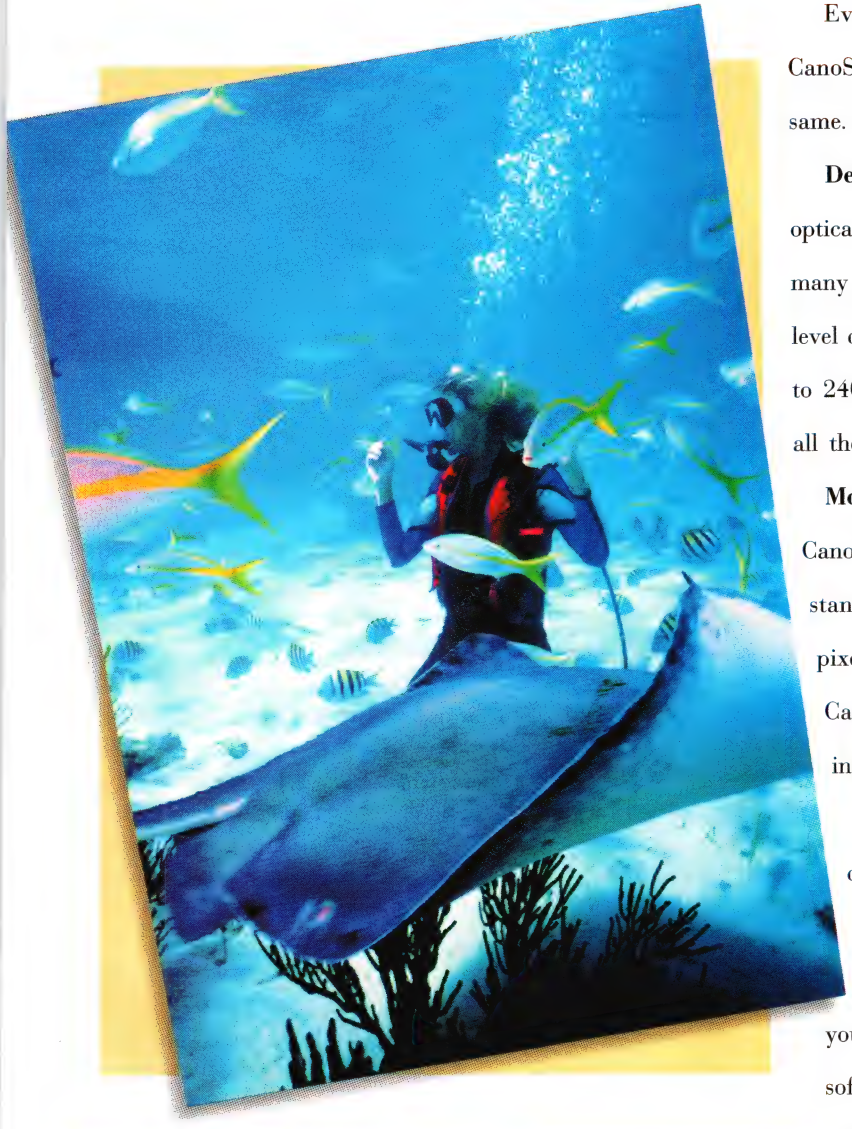
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Optical Resolution	600 x 300 dpi	1200 x 600 dpi
Colour Input	27-bit (9-bits per colour)	30-bit(10-bits per colour)
RRP*	$499	$799

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CS/4370

Photo Realism™

Canon

Digital cameras with high performance and absolutely

no negatives.



The easy to use PowerShot 350.



Whether it's a professional quality digital camera for business, or full automation for everyday use, Canon cameras start with a big advantage.

Critically acclaimed PowerShot 600.

The PowerShot™ 600 has drawn rave reviews, nominated as the digital camera of choice for business use, and for good reason.

True Canon technology. The lens system, focus mechanism, and imaging are all pure Canon. Resolution is almost 30% higher than any direct competitor, and the white balance system produces "true-to-life colour and minute details". (Australian PC World, April 1997.)

Superior storage. It features the widest range of storage and compression options – from economy mode to "uncompressed" for better pictures. Storage even includes a built-in voice annotation system.

Full accessories. CompactFlash memory, rechargeable batteries and re-charging docking station come as standard. Ulead Systems PhotoImpact 3.01 photo editing software is included for PC users.

The professional quality PowerShot 600.

"If you will be using a digital camera often in your work…the best choice is the PowerShot 600…" PC Magazine, Australia, March 1997.

"Of all the digital cameras we've tested, Canon's produces the best looking images…" Australian PC World, April 1997.

"The first digital camera we've seen (that) produces sufficiently high resolution and high quality images to survive digital manipulation…" Windows Sources, July 24, 1996.

"… (in its price class) the PowerShot 600 is overwhelmingly the best choice."PC Magazine, US, January 1997.

Only $1299 RRP. It's been described as the best camera on the market for the price. And that was before we lowered the recommended retail price to just $1299.

The PowerShot 350. Just $899.

Then there is the incredibly simple to use PowerShot 350. The LCD screen on the back is both a viewfinder, and picture editor.

It provides information on camera functions and allows you to monitor, review, delete and re-order shots, while providing more space for new shots.

Fully automatic. It features a vast range of shutter speeds, macro focus, and the ability to accept optional third party wide-angle and telephoto converters.

Exposure, focus, red-eye reduction and white balance are all automatic, while manual controls give you more creative options.

Nothing else to buy. Standard accessories include a 2 Mb PCMCIA CompactFlash memory card, serial cable for PC connection, NTSC "video out" for TV display, long-life re-chargeable NiCd batteries, re-charging kit and PhotoImpact 3.0 SE (Windows 95).

PhotoRealism™

For more information call 1800 021 167.

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PowerShot digital cameras – from $899 RRP

Canon

Internet marketing tips

Marketing your business via e-mail is a cost-effective way to attract customers. Helen Bradley explains how to get started.

Regardless of whether your business is big or small you can benefit from marketing it using e-mail. E-mail is a simple, yet cost-effective way of regularly contacting your customers. Using e-mail, you can send product information, updates, newsletters, a pointer to the latest addition to your Web site — in fact, any kind of information to a client's desktop for a fraction of the cost of regular printing and postal services.

Tools for e-mail

You can manage a small mailing list of up to a couple of hundred or so people manually. Programs such as Eudora Pro 3.0 have the facility to create and maintain mailing lists of up to 1000 addresses, but you'll need to add, amend and remove addresses yourself.

A larger mailing list of hundreds, or even thousands, of subscribers will be too much to manage yourself and, at this point, you'll want a specialist mail list management program.

Majordomo is the leader in the field of mailing list management software, and it will manage your mailing list by allowing you to maintain a database of e-mail addresses and to e-mail people from this list. People can subscribe and unsubscribe to the list via e-mail and this is managed automatically by the software. Majordomo is a Perl program and requires a Perl interpreter on the computer that you run it on. So, to use it, you'll need help from your Webmaster to get it up and running. However, once this is done, you'll find it fairly easy to use.

If your Webmaster can't provide you with access to a Perl interpreter, look around to locate one who can — a UNIX-based system is ideal. When your list is created you can operate it by e-mail so, once you are up and running, it really doesn't matter where it's located.

What you can offer your customers

In your e-mail to your customers you can include a newsletter giving information of interest and use to them. Don't be tempted to fill your e-mail with advertising because readers will simply switch off. These days people are looking for information they can actually use, so include sections like answers to frequently asked questions about your products and services, or handy hints and tips for using them.

If there's another business you know that offers products or services that compliment your own, consider selling them space in your e-mail newsletter. They can include information about their products and services which will be a marketing opportunity for them and something of value to your customers. This way you'll reduce the cost of your newsletter and, if they offer a subscription service to your newsletter from their Web site, you can expose your business to additional potential customers.

Getting people to subscribe

Include an item in a high visibility area on your Web site inviting users to subscribe to your e-mail newsletter. The more visible the subscription form is, the more likely it is that a viewer will find it and use it. Make sure you indicate that subscribing is free and tell them something positive that they will gain from it.

Majordomo has a simple e-mail system for subscribing to mailing lists and if you're running your system manually, simply invite your users to e-mail you with a request to add them to your mailing list. Their e-mail will automatically include their address so it is a simple process to cut and paste it into a folder in your e-mail software.

Other ways you can collect e-mail addresses are via product displays or give-aways in your store. Ask customers to fill in a form to qualify for a prize and include their e-mail address as one of your questions.

Writing your newsletter

You won't be able to include graphics in your newsletter because most e-mail software doesn't make it easy to see graphics, so you must write your newsletter well and make it attractive to read. Make your paragraphs short and highlight your headings using underline in the line below so the different areas of the newsletter are easy to locate. Many users won't have e-mail software that will show fancy fonts so don't rely on them to highlight your text.

If you keep to a standard format for your newsletter, your readers will know where to find the areas they are most interested in. They're more likely to read each edition if its layout feels familiar.

Like all newsletters send them out frequently. While you won't want to bombard customers' mail boxes with daily updates unless your customers can really benefit from this, a fortnightly or monthly mailing should be sufficient for most small businesses.

Resources

- Majordomo mail list and archive site: http://www.greatcircle.com/majordomo/
- Eudora Pro v3: http://www.eudora.com/
- Dr. Ralph F. Wilson's Marketing via E-Mail Newsletters and Mailing Lists: http://www.wilsonweb.com/articles/maillist.htm
- Revnet's GroupMaster E-mail List Server for Windows NT: http://www.revnet.com/


A PC made just
the way you like it.
GATEWAY2000
"You've got a friend in the business."®

Gateway Delivers you the works.

Founded in 1985, Gateway is now one of the largest direct suppliers of computer equipment in the world and we continue to enjoy phenomenal growth in all regions. Our philosophy is simple - provide the latest technology direct to customers at the most competitive prices, and back this up with outstanding support. The key to this success is our direct, build to order business model which means you, the customer get exactly what you want.

Gateway Desktops made fresh.

All Gateway desktop and tower systems feature Intel Pentium® processors with MMX™ technology or Pentium® II processors, which means you'll get the multimedia technology that today's applications demand. Our Pentium® II processor based systems use the Intel 440LX chipset and as a result, benefit from the latest hot technologies, like: Ultra ATA disk drives, AGP Graphics processors and SDRAM memory. If you would like to get a taste for why our customers are so satisfied, check out the specs on the back page, and please let us know if you'd like to make any changes!



Voted "Best Business PC" and "Best Home PC" in the 1997 PC World Readers Awards.

PCs made to order.

Fresh, hot and made just the way you like. We call it 'built to order'. This means that you choose which components you want in your PC and we build it for you. We offer an extensive range of options for our portable and desktop systems, and extend our 'built to order' capability to include support, finance and training options. That way you get exactly what you want and you don't pay for things that don't suit your taste.



Prices made easy to swallow.

At Gateway, we offer a number of cost effective finance arrangements for individuals through to small business and major corporations.

Call us to choose the finance package that's optimal for your requirements.

Gateway Portables.

Gateway offers portables that feature the latest technologies, like removable hard drives, SDRAM memory, low voltage processors that extend battery life and dual floppy drive / CD ROM drives for increased functionality. We also give you the option of mini and full docking stations to ensure convenient and fast 'docking' for you.

With our Solo 2300 series notebooks, you can choose from an Intel 133MHz Pentium® processor with MMX™ technology, right up to the awesome 233MHz Pentium® processor with MMX™ technology. That's a full range because we recognise that everyone's needs are different.



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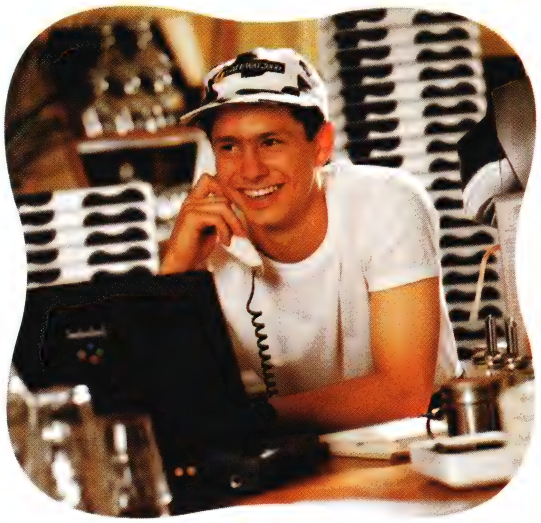
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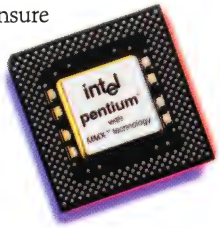
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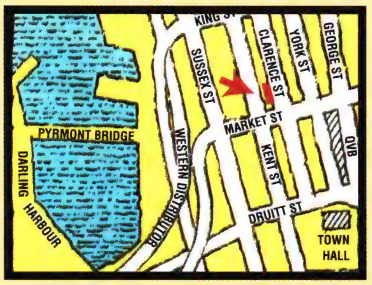
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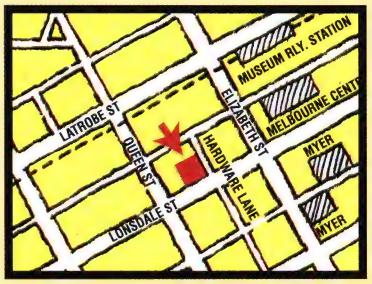
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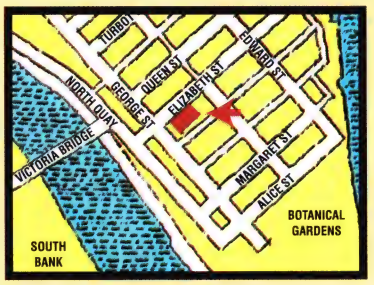
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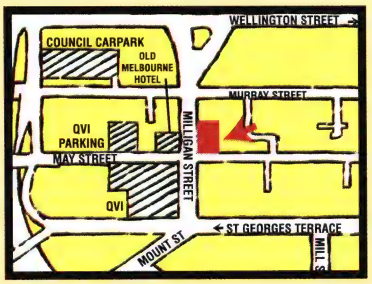
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NGAT0099

Year 2000 tips

There's more to the Y2K problem than whether the new millennium ticks over at the end of 1999 or 2000. Jan Wikström reports.

By now, most computer owner/-users would have heard something about the Y2K problem, or, as it's also called, the millennium bug. Would you believe there are even some who think it's a virus?

No, it's not a virus, and it shouldn't be called "the millennium bug", because the crunch time is December 31, 1999, exactly one year before the end of the millennium. It's not strictly speaking a bug, either, but a case of misplaced economy in programming.

Let me explain for the benefit of new chums: in the early part of the Computer Age, memory was expensive, so when it came to storing a date, the millennium and century were left off, saving two digits — we had dd/mm/yy, stored as three one-byte integers. It was the wrong solution, as it turns out; the date should have been converted to the Julian number (days from 1/1/4713 BC), which could have been stored in the same space with no practical limitation (range 45,962 years).

There are two aspects to this problem: hardware and software. The hardware is of course the clock on your motherboard (or an extension card if you're still running an XT), and its conversion routines in ROM BIOS. With most PCs, the curtailed date leads to errors in connection with dates beyond 1999 because when the clock should roll over to 2000, it doesn't — the stored date is only 00, and whether that comes out as 1900 or 2000 depends on how DOS tags on the century. Some older systems make it even worse, as the ROM BIOS date turns over to 80 or 84 instead of 00 and there are other curlies because, for example, 99 has been used as an error indication in some models. We're talking PCs here; in the jungle of mainframes and minis, there are many weird and wonderful failure modes that are thankfully outside the field of interest of this magazine . . .

As for the software, you need to look at any program you work with that stores a date; if it's an old program, chances are it uses the three-byte dd/mm/yy format and if it's reasonably new, it should use either the Julian number or yyyy/mm/dd. For a trouble-free passage into the two thousands, you need to have both hardware and software right, although there are utilities that are claimed to keep the system date straight regardless of BIOS and DOS.

It's simple to check out your hardware and operating system. For a basic test, just reboot into DOS mode, set the date to 31/12/1999 and the time to 23:55 and wait five minutes. Reboot again into DOS mode and type DATE. Does it read 1/1/2000? If not, it's time to look for a BIOS or motherboard upgrade. Some Pentiums have BIOS stored in a flash EPROM (electronically programmable read-only memory), which can be upgraded by software. For example, Award and AMI dated later than October 1995 can probably be upgraded with a patch that is available now, and AST and Gigabyte machines after July 1996 are problem-free.

There are more comprehensive tests that diagnose exactly what the problem is and whether it can be fixed. I've tried DOSCHK, Test2000 and YMark2000. These are all freeware and you'll find them on this month's cover CD. All three worked fine, but tested slightly different things and put forward different opinions about what is important, in particular whether the actual CMOS details are important or if the BIOS can be allowed to compensate for CMOS shortcomings. The crunch here is if you have one of the extremely rare programs that get the date directly from CMOS; normally, date calls go via BIOS. By all means run all three and think about what they tell you.

The text files and result screens of these three utilities have much useful information, and yet more is available on the Internet. Try the Year 2000 Centre on http://www.year2000.com/ or, for the lighter side, http://www.leonardsloan.com/about/y2k/index.htm. Note that most of the information on the Net concerns legacy systems on mainframes and minis.

The system date is important not only because it date-stamps changes to files, application software consults it as well for such purposes as putting a default date into an entry field or checking for today's appointments. Unfortunately, many applications handle dates so badly themselves that what they do with the system date dwindles into a mere blemish. I've been told that spreadsheets are particularly bad, with some even failing to recognise that 2000 is a leap year (do some calculations involving February 29, 2000 in your spreadsheet and see what happens). We'll follow up this article later with information about software packages with Y2K problems, as vendors and discussion groups publish details. ❑

Year 2000 Centre



There is plenty of information on the Internet on the Y2K problem. Visit the Year 2000 Centre at www.year200.com/

Games hints'n'cheats guide

Julian Schoffel sources hot hints, cheats, tips and walk-throughs for your all-time favourite games.

Diablo

- *The 'source' is the person or object who sets the quest.*
- *The solution to quests found in a book are generally located on (or can be accessed from) the level where the book was found.*

The Butcher (source: the wounded townsman)

The Butcher can be found on level 2. Look for a room full of dead bodies. As soon as you open the door the Butcher will charge at you shouting "Ah, fresh meat!" While he is fairly easy to kill with characters of level 10 and over, weaker characters will need to watch out. Try using ranged attacks — the Stone Curse spell will come in very handy here. Once killed, he drops the "Butcher's Cleaver".

Number of mini-quests



There are numerous mini-quests to be solved in Diablo — you'll have to play the game more than once to see all of them.

Poisoned Water Supply (source: Pepin)

On level 2, find the crack in the wall which says "to a dark passage" when you pass the mouse cursor over it. Go in and kill everything you find there. Once this has been achieved, the water in the cave will change from yellow to blue indicating that the quest has been successfully completed. Go back up to town and see Pepin, he will reward you with the "Ring of Truth".

Ogden's Stolen Tavern Sign (source: Ogden)

Go to level 4 and search for the Dark One known as "Snotspill". He complains about some "big uglies" taking his banner and tells you to get it back for him. Go around the corner and kill the Overlords. The tavern sign is in the chest. Return to town and give the sign to Ogden; he will reward you with the "Harlequin Crest".

Arkaine's Valor (source: book)

Find the altar with blood on it. There should be a "Bloodstone" lying nearby. Place it in the altar. A secret room will open. Kill the "Horned Demons" and you will find another stone. Repeat this until the hall in front of the altar opens. Kill everything and take the magical armour known as "Arkaine's Valor".

Chamber of Bone (source: book)

Find the staircase going to the chamber. Once inside, kill all the Horrors, Skeletons and Horned Demons. Then pull all the levers to find several magic items, along with a "Guardian" spell.

Exploit a bug for items



When playing Diablo, items can be duplicated by exploiting a bug in the game — read our tips guide to find out how.

Anvil of Fury (source: Griswold)

The anvil is located in the lava area of the caves. Kill the monsters guarding it and then take it to Griswold. He will use it to make a magical sword for you called "Griswold's Edge".

Black Mushroom (source: Adria)

Find the "Fungal Tome" in the Caves. Take it back to Adria and she will ask you for a black mushroom. Return to the caves and pick one. Now give Adria the mushroom, and she will ask for some of Pepin's elixir. But when you see Pepin he will ask you for a Demon's brain. Go back down to the caves, kill a Demon and get the brain. Give it to Pepin and take the elixir. Now go and talk to Adria. Once you have seen her, drink the elixir for +3 to all your character's stats.

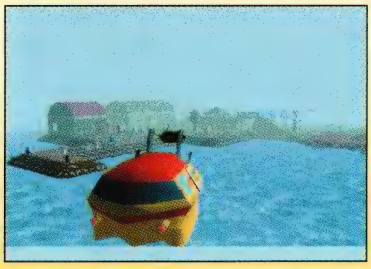
Lachdanan (source: Lachdanan)

Go to level 15, find the "Golden Elixir" and take it back to Lachdanan. In return, he will give you the "Veil of Steel".

Archbishop Lazarus (source: Cain)

Find the "Staff of Lazarus" on level 15 and give it to Cain. Go back down to

Begin the journey



Twinsen's Odyssey is a huge and challenging game — so to get you started, we have included a walk-through of the first section.

Little Big Adventure 2: Twinsen's Odyssey

Some naughty cheats

Hold down the Shift key and type "Twinsen's Back" to receive infinite everything.

Or to use these cheats press Esc then type in:

Code	Effect
gold	Money
magic	Full magic
life	Full life
full	All of the above
box	Box of clover
speed	Display framerate

Healing the injured Dino-Fly

- When the game begins at Twinsen's house, the first thing you should do is go to the back room (the key is in a drawer nearby) and get Twinsen's golden ball.
- Now talk to Twinsen's wife (Zoe) and look at the injured Dino-Fly.
- Go to the pharmacy and catch the umbrella thief (sneak up on him using "Discreet" mode).
- Talk to the man outside the pharmacy and he will tell you about the "Weather Wizard".
- After visiting the wizard you find out about "Ralph" the missing lighthouse keeper. You'll need to find Ralph so the wizard can ease the weather, allowing you to take a ferry off the island.
- Talk to Ralph's girlfriend and she will tell you that he was captured by the "Tralu" while taking a walk along the cliffs.
- Before you attempt to rescue Ralph, you'll need your old clothes and medallion.
- They can be found in the museum, so off you go.
- You'll have to pay to get in to the museum because the clerk doesn't recognise you. Now look at the case holding all of your gear: the only way to open it is from the control centre which currently happens to be inaccessible because of a broken door.
- Go outside the museum and look for an open window on the second floor. Climb in the window and open the case holding your robe by pushing the appropriate button. When you put on your old clothes all of your magical combat abilities will return. Now you are ready to rescue Ralph.
- Go to the cliffs and you'll see a dark entrance with a snake lurking outside.
- Enter and make your way to the next cave. You'll have to make some dangerous jumps along the cliff side to reach it so be careful.
- Go into the next cave and open the gates by hitting the switches with your golden ball. Try different behavioural modes to change the ball's trajectory. There are various hostile creatures in here so use your ball on them as well.
- Eventually you will reach Ralph who is being guarded by the "Tralu". Kill it and rescue Ralph.
- Now talk to Zoe and take her to the lighthouse to watch the Weather Wizard get rid of the storm. At some point Zoe will ask you to pick up a part for your car on Desert Island (remember this).
- Watch the cut-scene where the aliens land.
- You can sneak into their ship if you want to; this will reveal their evil agenda.
- Anyway, now the weather has cleared up you can buy a ticket and take the ferry to Desert Island.
- Once you have arrived, go and see

Cheats for Twinsen



Sometimes Twinsen could use a little help in LBA2 — we have included some cheats which should make the little fellow's journey somewhat easier.

level 15 and enter the red portal. This takes you to a new level. Solve the teleport puzzle and kill Lazarus. This will get you three magical items.

Diablo (source: Cain)

Use the Red Pentagram to go down to level 16. Pull the "Skull" levers to release Diablo. I killed him using a Sorcerer character and I found a combination of "Teleport" and "Fire Wall" spells to be very effective: just lure him to a corner, keep casting "Fire Wall" spells and make him walk through the flames, then teleport around the corner before he reaches you. Repeat this until he dies (be warned: this method takes rather a long time).

How to duplicate an item without any hacking

Method 1:

1. Use Town Portal spell.
2. Set any item in front of the portal.
3. Click with the mouse on the item and step through the portal.
4. When you reach the town the item will be in your inventory.
5. Go back through the portal and the item will be where you left it.

Method 2:

Open your inventory and pause the game. Then select an item and drop it on the ground, and place the item back into your inventory. Then unpause the game and the item (for example, money) will appear both on the ground and in your inventory.

Use your own initiative, too



While cheating can be fun, just don't let it spoil the game.

the Healer: he's not home, but the maid will mention a School of Magic (remember this).

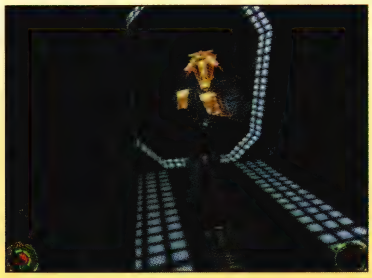
- Now go to the Inventor's (Baladino) house and get the part for your car. Buy a ferry ticket, go home and give the part to your wife. She will tell you that Baladino forgot to give you a radio.
- Go back and get the radio from Baladino. Right after this Zoe will call you to say that the car is now fixed and she will bring it to Desert Island for you.
- Go and pick the car up from the harbour and drive around.
- Next on the agenda is finding the mysterious School of Magic. Talk to as many people as you can and then drive to a hotel on the left side of the island. You need to get up to the roof of the hotel, but to do this you have to lure the manager away from his desk in order to have access to the roof-ladder.
- Walk into the ladies' sauna and they will start to scream. The hotel manager will come and tell you to leave. Pretend to do so, but instead of leaving, climb the roof-ladder which is now unattended.
- Once on the hotel roof, talk to the Snake Charmer and he will tell you that the School of Magic is hidden in the Cemetery.
- Drive over to the Cemetery and you will find it locked. Park your car and walk around the mountain until you see two dead trees. Look under the branch of one of the trees and you will find a secret entrance.
- Go inside and make your way to the second room. There you will see rows of tables and some stairs blocked by a locked door. Avoid the blue floating ghost-like creatures and slowly make your way forward until you can see a treasure chest. Don't go to the chest just yet because the floor is booby-trapped.
- Change to "Discreet" mode and make your way to the chest, take the key and use it to open the locked door.
- Open it, run through and talk to the woman. She will tell you that you need to pay a fee to join the School of Magic.
- If you don't have enough money to join right away, visit the Temple of Bu theme park and play the dart game. The balloons you win give you easy access to lots of money — try it and find out.
- Once you have joined the School of Magic, the headmaster will assign you three tasks which you will need to complete to get your diploma. During one of these tests you will receive something which will cure the injured Dino-Fly.
- Complete the first test and take your blowgun.
- The second test involves finding a yellow flower. Take your car a little to the north of the cemetery. You should be able to see some hills. One of them has a yellow flower growing on it. To reach it drive around the adjacent hills until you find a way up. Drive across it until you see a board. Hit the gas and run over the board: this will propel your car through the air and on to the top of the other hill. You should now be able to reach the flower. Pick it and take it back to the headmaster who will then give you a Horn of Healing.
- Once you have the Horn, make your way back to the Dino-Fly and use it on him a few times. After a while he will stand up.
- You can now ride him to the third test . . . Good luck!

Jedi Knight: Dark Forces II

Cheats

Type "T" during the game to bring up the console, then type in the code. Note that some of the codes must be followed by the word "on." For instance, to turn on invulnerability, type "jediwannabe on".

Built-in cheats



One of the year's best 3D shooters, Jedi Knight also includes a series of built-in cheats — we have included them below.

Code	Effect
whiteflag	Monsters become inactive
eriamjh	Fly mode
jediwannabe	Invulnerability
slowmo	Slow motion mode
thereisnotry	Immediately jump to next level
red5	Gives player all weapons
wamprat	Gives player all items
imayoda	Gives player mastery of all Light Jedi powers
sithlord	Gives player mastery of all Dark Jedi powers
racoonking	Gives player mastery of all Dark & Light Jedi powers
deeznuts	Experience level up
bactame	Restores player to full health
5858lvr	Reveals entire map
yodajammies	Gives player full Force power

MDK

Walk-through for World 1

ARENA 1: After landing in this arena, turn around and collect the "Most Cowardly Power-Up" to receive a health boost. Run up the corridor and kill the waving guard with your chain gun, then wait for the next two guards and kill them both as well. Collect the "Worlds Smallest Nuclear Bomb" from the left side of the arena and use it to blow up the Atomic Lock on the exit door.

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3Dfx

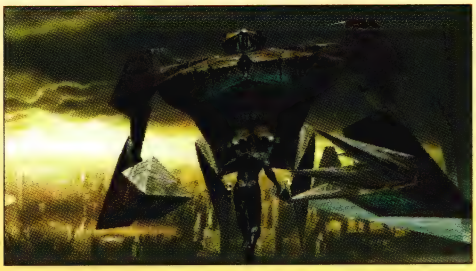
PC CD ROM

PlayStation

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Bigger, stronger



Hmm, feeling a little small and inadequate when playing MDK? Why not use the special cheat codes — go on, we won't tell anyone . . .

ARENA 2: After entering this arena, enter Sniper Mode and zoom in to the Guard on one of the parapets of the distant tower. Wait till he is holding the target over his face then shoot it to perform a "Head Shot". Repeat this for the next two guards who appear on the tower, then wait for the Exploding Crate to drop down and come to rest. Shoot this to blow up the tower and kill the three shielded guards, and then exit Sniper Mode. Collect the grenade which drops down into the arena then throw it at the red, glass wall (making sure you stand quite far back when you throw it). Now stand on the top step in front of the pedestal and jump and float with your Ribbon Chutes to collect the Mortar pick-up. Standing either on the pedestal or on the floor, enter Sniper Mode and target the black hole above the centre glass wall. Fire a mortar in to the hole and this will blow open the glass. Run into the room and destroy the Guard Generator in the centre of the room. Use Sniper Mode to kill the three Guards with giant targets by using the Head Shot technique, then collect the Dummy Decoy pick-up from behind the glass columns. Jump on to the lowest of the platforms and use the rest to reach the exit door.

ARENA 3: Stop after entering this arena and use Sniper Mode to zoom in on the distant building. Target the area just above the closed door, and you will see three of the Exploding Crates. Shoot any of them to explode the structure and blow open the door. Now run across to the building's entrance, avoiding the Guards and the Tank as you go. Once inside the building, keep shooting the Guard Generator till it blows up to reveal the exit hole.

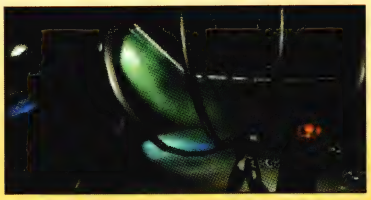
ARENA 4: Once in the Subway Station, destroy the Guard Generator to your left, then jump across the track and take out the one hidden in the alcove on the right. Collect the Grenades and then come back down to the Train. Cross over to the other side through the Train and approach the large door. When the Tank emerges, throw the Grenades at it repeatedly till it blows up. Run into the Tank's room to find the exit.

ARENA 5: Kill the Guard at the start of this arena, then shoot at the Console to the right of him a couple of times. This will cause a Ship to fly down and hover in front of you. Walk into the Ship and you will enter Bombing Mode. When in this state, you will be shown a view looking down at the arena with a targeting cross hair. The ship will fly you round the arena before dropping you back off at the starting point. While you are flying around, use the fire button to drop a series of bombs, positioning them with the cross hair. Destroy as many of the Guards as possible, and also bomb the top of any buildings you may fly over to blow them open.

When the ship has dropped you back at the beginning of the arena, move towards the building in the middle, entering the two on the right or left to collect pick-ups. When you get near enough to the last building, a Tank will be flown down into the arena. A second ship will then appear above the building and hover for a few seconds. Zoom in with your Sniper Mode and target the Exploding Crate hanging beneath it. Shoot this to blow open the door and then enter it. Destroy the Guard Generator and a Nuke pick-up will be revealed. Collect this and the Turkey health power-up, and then exit the building. Run around to the rear of the structure and you will see the Exit Door in the far wall at the back of the arena. Use the Nuke to open the Atomic Lock and then exit the arena.

ARENA 6: Follow the canyon passage in this arena to the right, be sure to take out the five Flying Guards before you get

It's a bird . . . it's a plane . . .



Sometimes you have to take to the skies: winging it in MDK. (Make sure you check out the walk-through of World 1 included this issue.)

to the end, and then stand behind the last block on the right to shield yourself from the Cannon. Throw the Dummy Decoy to the left, and then shoot at the Cannon while it is distracted. If you have any grenades left, these will help you to destroy it faster. Once the Cannon has been destroyed, jump up onto the block and enter Sniper Mode. Now select Mortars from your sniper weapon inventory, and fire a mortar into each of the four "funnels". These lead down to the glass-fronted rooms and will blow up the four taunting Guards. If you do not have any Mortars, or you use them up trying, exit sniper mode and search the arena. There will always be a spare supply somewhere in the level. After each Guard has been destroyed, the entire structure will explode to leave a chasm in the floor. Destroy the two tanks which appear on the other side of the gap, then stand at the highest point on your side of the chasm. From this position jump and float across to the lowest point of the other side. If you are lucky, Kurt will grab hold of the edge and pull himself up. Follow this section of the canyon and collect a Most Cowardly Power-Up to restore your health level.

Return to the edge of the chasm and drop down using your Ribbon Chutes to the bottom and the exit.

ARENA 7: Jump off the Glass Platform at the start of this arena, and float down to the floor, avoiding the spikes. Use grenades to blow up the target dome in the centre of the room to reveal an Air-Vent. If you do not have any grenades, wait and a supply will drop down to you.

Jump on to the Air-Vent and you will float up with your Ribbon Chutes. When you reach the top of the air current, turn around till you are facing a long glass



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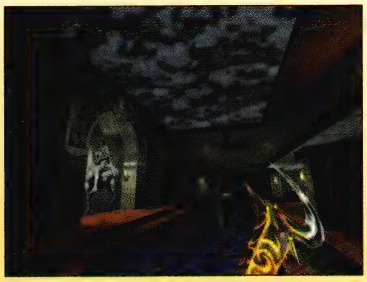
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Beat the challenge



Hexen II is a challenging game, make your life a little easier by using the cheats detailed in this cheats guide.

platform sticking out from a wall. Land on this and use the other Glass Platforms to work your way up to the top of the room. At the very top, collect the pick-ups and then leave through the exit.

ARENA 8: Follow the passageway round to the left and shoot the Alert Droid till it opens. Walk in to the droid, then drive it back down the passage and around to the door which leads in to the corridor filled with sentries. Now while inside the Alert Droid, you can drive between them without trouble. Once you get to the end of the corridor, avoid the Very Big Guard and jump past him to the room beyond. Collect the "Worlds Most Interesting Bomb", and throw it into the centre of the room. When all of the enemies have crowded round it, press Enter on your keyboard to detonate it — remember to stand well back! If any of the sentries survive, take them out with your chain gun till they have all been destroyed. Leave the corridor and collect the Nuke pick-up which drops down to the left of the entrance door, and use it to blow the Atomic Lock off the Exit Door.

ARENA 9: After floating up the airshaft, stand on the highest section of the arena and face the distant tower above the glass walls. Zoom in to the Mine Controller who is working in the tower and select Sniper Grenades from your sniper mode inventory. Target the Controller's head and zoom in to the Max on his face. Now shoot him and, if successful, you will kill him with one shot. If you miss, or if you do not have any Sniper Grenades in your inventory, you will have to try again. Keep shooting at him with normal bullets and a supply of Sniper Grenades will eventually drop down into the arena. Now you're ready to tackle World 2 . . .

Hexen II

Cheats

To use these codes, just type them in at the console (Tip: Press the "~" key to get to the console.):

Code	Effect
god	Godmode ON/OFF
noclip	Noclipping ON/OFF
notarget	Enemies don't recognise you ON/OFF
changelevel X	Changes level (X= Level Name)
restart	Restarts the level
name X	Changes your name (X= New Name)
give h X	Gives health (X= Amount of health. Maximum 999)
give 2	Gives weapon 2
give 3	Gives weapon 3
give 4	Gives weapon 4
impulse 9	All Weapons/Mana
impulse 14	Gives you a Sheep
impulse 23	Torch
impulse 43	All Weapons/Mana/ Items
impulse 44	Throws an Item
impulse 10	Change Weapon
impulse 13	Lift Object
chase_active 1	Chase Mode (Camera)

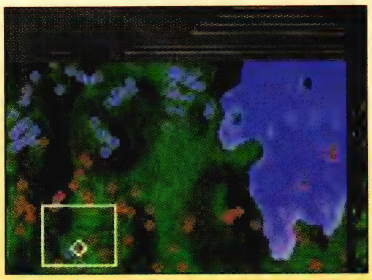
Total Annihilation

Cheats

Press Enter to bring up the message box, type in one of the following codes, then press Enter again to activate:

Code	Effect
+ATM	Boosts metal and energy by 1000
+Contour# (replace # with 1-5)	Shows 3D terrain mesh
+Dither	Dithered line of site instead of grey
+DoubleShot	Double damage from all weapon fire
+NowISee	Reveals entire map, disables line-of-sight
+Radar	100% radar coverage

Real-time strategy



It seems almost a shame to cheat in this great new real-time strategy game from Cavedog, but hey, we've included the cheats anyway . . .

Daggerfall

Swimming underwater

If you have to swim underwater and you keep running out of air, save the game just before running out of air and then reload the game. Your air supply will be back to the maximum level.

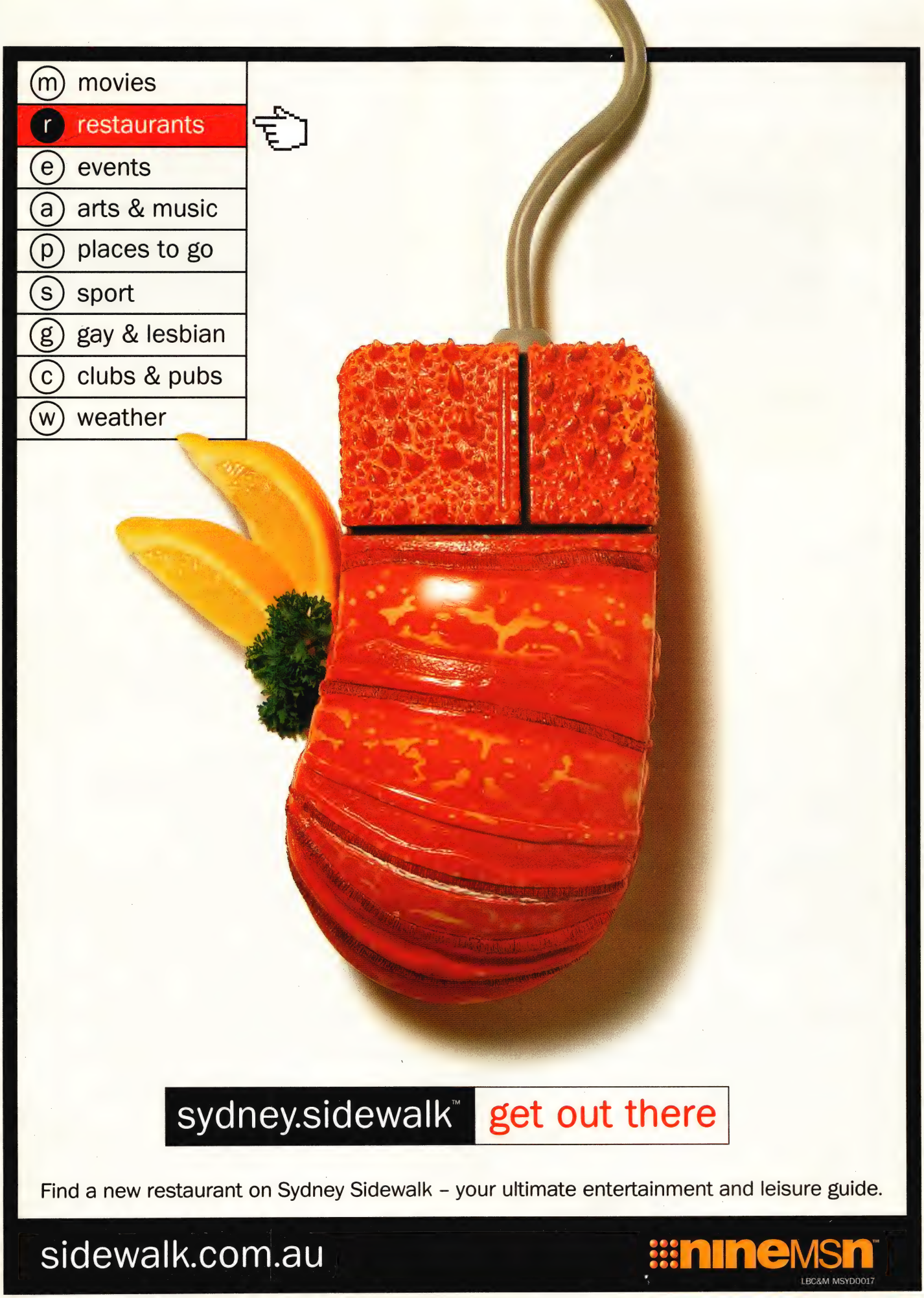
Cheap magic

When you make a spell add a "!" in front of the spell name; this will let you cast the spell once free every day. If you want the spell to cost less then add a "$" in front of the spell name. (Please note: may only work in the earlier versions of the game.)

Cheat mode

To activate cheat mode you will have to add the variable "CHEATMODE" to your z.cfg file (use a simple edit program) and set it to "1". The cheat codes are as follows:

Cheat keys	Effect
1	Sets your maximum speed to 1200 (6 times the normal value).
Ctrl+F1	Activate all maps on the fast travel map. This can be useful if a location is no longer on the map.
Ctrl+F4	Invulnerable mode.
Alt+F11	If you fall into the void,


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Longer life-span



The gameworld of Daggerfall can be a tough proposition. Make your character's life a little easier (and a little longer) using the cheats detailed in this month's issue.

pressing this will take you back to the previous object you were standing on.

[and] If you're in a dungeon, these keys will cycle you through the various quest locations. Be careful not to teleport into a location that is occupied by a monster. You will be trapped inside the monster. Also, some locations are high enough to pop you into the void when you beam to it. This can be useful if you fall into the void or can't find the quest item you're looking for.

- and = These keys raise your reputation and your skill levels.

Dungeon Keeper

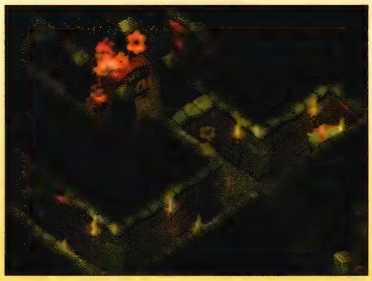
General tips and tactics

- The most important creatures in your dungeon are your Imps, so look after them. As the game progresses it is also wise to pick a squad of at least seven or eight Imps and train them up to level 10. As they train they get bigger, stronger and a whole lot faster.
- While Vampires are a useful by-product of dead bodies, they can also be unruly and rather vulnerable to scavenging. My advice is to torture them to death immediately: the Ghosts they become are far more manageable and quite powerful when trained.
- If you happen to encounter a Horned Reaper in your dungeon, keep him apart from the rest of your creatures: Horned Reapers tend to get grumpy quite easily and when they do, they run around killing anything in their path. Throwing gold on them quite regularly tends to keep them happy. The extra expense is justified because they do make excellent fighters.
- In the later levels, you will have access to a variety of traps. The most useful of these is the Boulder Trap, which instantly kills anything in its path (this includes your creatures, so be wary). The Boulder Trap really comes into its own on the final level, where you must destroy the Avatar and his companions, as well as an incredibly powerful rival Keeper. When you are tunnelling around your side of the map on this level, you will come across a number of Hero Gates: building Boulder Traps near them will make mincemeat of the Avatar's companions when they teleport in later on. Unfortunately, the Avatar himself is invulnerable to the Boulder Trap — so you'll have to kill him by hand (no easy task, I assure you).
- When tunnelling, stay on the alert for blocks of gemstones: unlike gold they are a permanent source of income.
- Sacrificing the occasional Imp in a Temple can yield excellent results — experimentation is the key (see below for more detail on sacrificing for profit and material gain).
- The Avatar (who has been imprisoned by a rival Keeper) on the final level can be reached two ways – one is through the rival Keeper's dungeon and the other, well I'll leave that up to you to discover . . .

We all have to make sacrifices . . .

- Sacrifice a Fly and a Spider to get a Warlock.
- Sacrifice a Beetle and a Spider to get a Dark Mistress.
- Sacrifice two Beetles to have work completed.
- Sacrifice two Flies to have research completed.
- To complete the Library project immediately, sacrifice three Flies in the Temple.
- Sacrifice a Bile Demon, a Mistress and a Troll in your temple to get a Horned Reaper.
- Sacrifice an Imp to lower the price of Imps by 300 gold.

The road to victory



Strategy is the key to success in Dungeon Keeper. This month we have included some special tips to ensure your dark victory.

Fiendish tactics

Type in "give all" at the title screen and when you start a game you will have all the creatures in the realm, as well as all buildings, traps and doors. But the best part is Imps are the only creatures your opponent will have access to!

Fallout

Easy money

Method 1: Highlight your "Gambling" skill when you create your character, then increase it to at least 80 per cent. Now go to any casino and hold down some numeric keys, ie, "1" and "4". Sit back and watch your credits increase. With the cash you can buy books to increase your skills, as well as all the weapons and ammunition on sale. No need to steal, no need to barter and no need to worry about skills like "First Aid" or "Repair".

Method 2: In the town called the Boneyard, there is a man in a shop who repairs weapons and makes ammunition. He always has 500 to 700 Bottle Caps (money) in his inventory. Use your "Steal" skill to steal the money from him. If you are successful, save your game. Then, load the game that you just saved. Use the "Steal" skill on

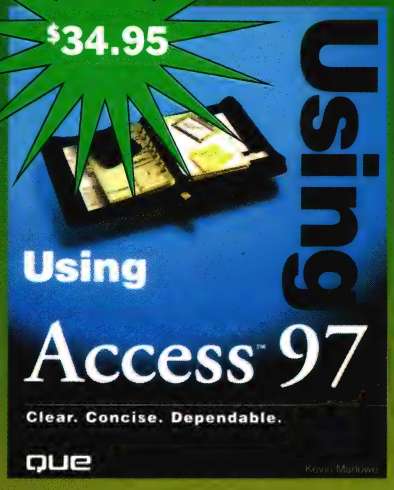
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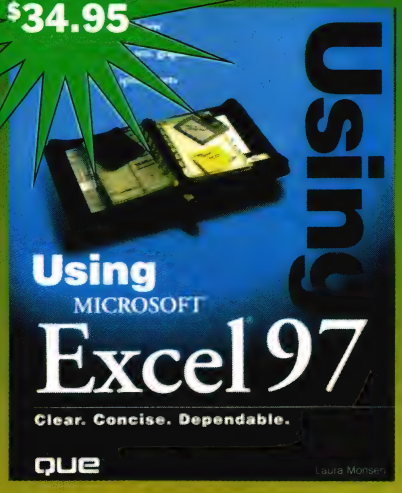


Using Access 97
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Complete coverage of how to integrate information created in an Access database with other Office 97 applications, as well as how to post Access databases to the Web. Primary elements of Access, including working with tables, sorting/finding/filtering data and how to query successfully are all covered in detail.

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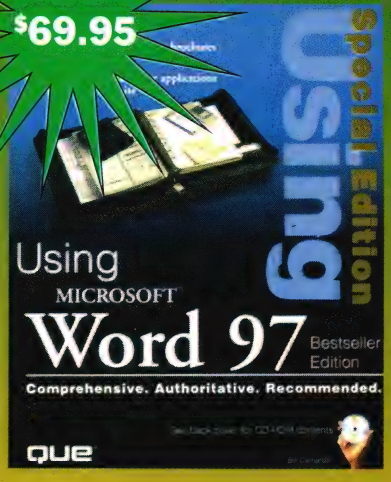


Using Excel 97
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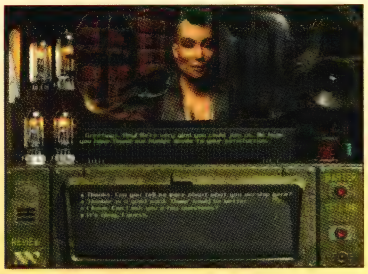
User Level: Intermediate - Accomplished

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Under pressure



Your 'Gambling' skill can be very important when acquiring money in Fallout from Interplay.

him again and he will have another 500 to 700 Bottle Caps. Do this repeatedly to get as much money as you need. (Tip: A high percentage for your "Steal" skill will increase your chances of successfully pilfering his money.)

MDK

Cheats

Press F1 (Help screen) before typing these in (so you won't hit an already defined key). Then press Esc or Enter to return to the game.

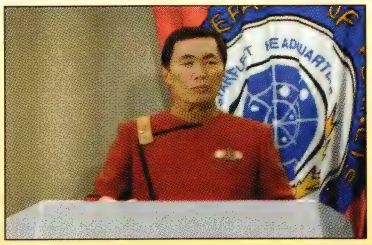
Codes for all of the patches

Code	Effect
Ineedabiggun	Super Chain Gun power-up
Holokurtisfun	Dummy power-up
Nastyshotthanks	Homing sniper grenade
Tornadoaway	Twister power-up
Iliketolob	Mortar power-up
Kill	Suicide
486ok	Allow 486 machines to run

Codes for unpatched final North American executable

Code	Effect
Makemefull	Health
Masterblaster	Gatt power-up
Twistandshout	Twister power-up
Biggrenade	Homing sniper grenade
486willbeslow	Allow 486 machines to run

Take your aim . . .



Combat in Starfleet Academy can be quite tough. Wouldn't it be great if you could fire when the ship was cloaked? We've found a way to do it — see below for details.

Codes for the European version

Code	Effect
Healme	Health
Ineedabiggun	Gatt power-up
Tornadoaway	Twister power-up
Holokurtisfun	Dummy power-up
486okbyme	Allow 486 machines to run

Need for Speed 2 (Special Edition)

Cheats

At the Start Menu type:

Code	Effect
VIP	Limo
Tombstone	Daytona racing car
Hollywood	Secret track (Monolithic Studios)
Slip	Slippery tracks
Pioneer	Upgrade all car engines (faster speeds)
Bomberbfs	Bomber BFS
Fzr2000	FZR 2000
Rushhour	Traffic on the road
Rain	Starts any track with rain condition
Mach1	Drive jet power engine

Starfleet Academy

Firing when cloaked

When flying a cloaking ship in the "create mission" area, activate the cloaking device and THEN go to red alert (as if you were typing "car"). If you get red alert on before the ship fades out, you can fire while cloaked. Activate the manual targeting on weapons, because the weapons won't track all by themselves.

Thrill of the chase



Why cheat in this excellent racing game from EA? Well why not? See 'Need for Speed 2 (Special Edition)' for details . . .

Ultima Underworld 2

Shed some light on the subject

Delete, rename or move the lights.dat file in the DATA folder to brighten all of the dark places in the game.

Plentiful supplies

To make a magic scroll or potion last forever, repeatedly throw the item against a wall (or just send a fireball at it if you're impatient) until it turns into a pile of debris. When you pick it up you'll find out that you can re-use it. Get one each of Heal, Fly, Restore Mana, Light, and Smite Foe and you're nearly invincible. The only problem is sorting them all out . . . they do look identical after all.

Wing Commander IV

Cheats

For Wing IV, use the command line "wc4 –chicken" to start the game. These controls should now work:

Cheat keys	Effect
Ctrl+W	Destroy targeted enemy
Ctrl+Alt+W	Destroy all enemies on radar
Alt+O	Become invulnerable ❑

The Power of DVD



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Stock may not be displayed in all stores.

What you need	User Level
Word 6.0, 7.0 or 97	Easy — Expert
Corel WordPerfect 7	
Lotus Word Pro 97	

Word processing tips

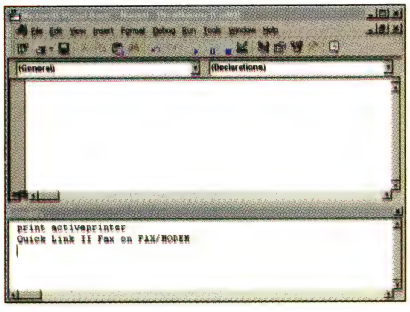
Helen Bradley provides time-saving tips for Word 6.0, 7.0 and 97, Corel WordPerfect 7 and Word Pro.

Word 97

Changing printer

This handy macro tells you which printer is currently selected and allows you to change this to a second printer. It's handy if you have two printers attached to one computer or if you can 'print' to a fax as well as a printer.

To create the macro, first you must find some details about what your system calls your printers.

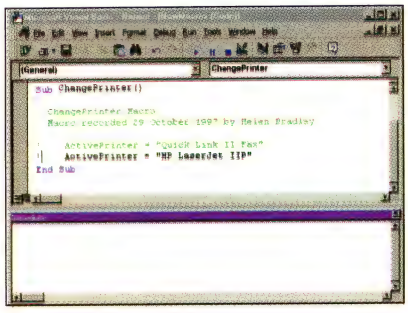


Step 1: Select one of the two 'printers' you want to choose between and select Tools, Macro, Visual Basic Editor, Immediate Window. Type this line in the immediate window and press Enter:

```
print ActivePrinter
```

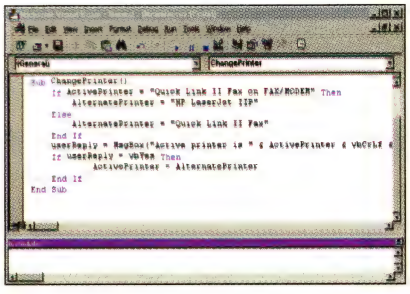
Write down exactly what appears in the following line as this is what Word is calling your current printer. Close the Immediate Window.

Step 2: Return to Word and record a macro using Tools, Macro, Record New Macro, call the macro ChangePrinter and click OK. Select File, Print and in the Name list box select one of your two printers (the one that is not currently selected), click Close, select File, Print, in the Name list box select your second printer, click Close and select the Stop Recording button on the Stop Recording toolbar. Now edit the macro you have created by selecting Tools, Macro, Macros, select the macro ChangePrinter and select Edit.



What you will see are two lines beginning 'ActivePrinter ='; it's what appears in quotation marks after the = symbol that is important as this is what Word calls your printers when you select them. Comment out these lines by placing an apostrophe in front of each of them so they are there for reference but they won't execute.

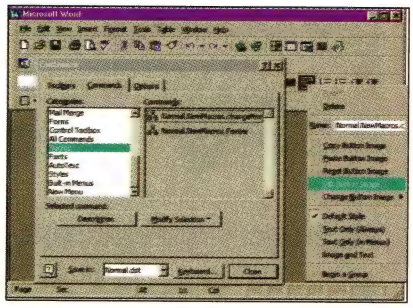
Step 3: Below these lines type this macro (the Sub and End Sub statements will be there already):



```
Sub ChangePrinter()
    If ActivePrinter = "Quick Link II Fax on FAX/MODEM" Then
        AlternatePrinter = "HP LaserJet IIP"
    Else
        AlternatePrinter = "Quick Link II Fax"
    End If
    userReply = MsgBox("Active printer is " & ActivePrinter & vbCrLf & "Do you want to change this to " & AlternatePrinter & "?", vbYesNo + vbQuestion, "Printer Selection")
    If userReply = vbYes Then
        ActivePrinter = AlternatePrinter
    End If
End Sub
```

Step 4: Customise this macro for your setup, change the text in the quote marks in the first line (If ActivePrinter = " ") to the text that you copied from the Immediate Window. Move to the second line and put in the text you recorded which relates to the printer that you didn't describe in line 1. Now move to line 4 and put in the text you recorded that relates to the printer in line 1. Remove the lines you recorded and which you commented out with the apostrophes. Select File, Close and Return to Microsoft Word.

Step 5: Add a button to your toolbar to run this macro. Do this by right-clicking the toolbar and select Customize. Select the Commands tab and from the Categories list select Macros. From the Commands box drag the Normal. NewMacros.ChangePrinter icon to the toolbar. Right-click the button and select Default Style and then right-click again and select either Edit Button Image to create a custom button face or Change Button Image to select one from the list. When you're finished select Close in the Customize dialogue to return to your file.



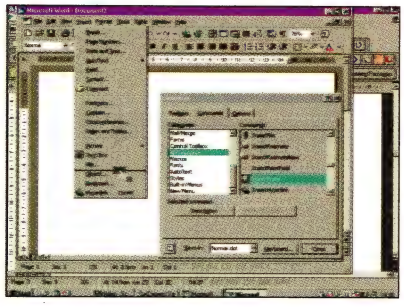
Insert Frame

One of the disappointing things about upgrading software is that functions you get used to using have a nasty habit of disappearing. In Word 97 the Frame option no longer appears on the Insert menu. Luckily the function is still there and it takes only a few moments to put it right back where it belongs.

Add the Frame option to the Insert menu by following these steps:

Step 1: Select Tools, Customize and select the Commands tab.

Step 2: Select All Commands from the Categories list.



Step 3: Locate the Insert Frame item in the Commands list.

Step 4: Click on the Insert menu to open it.

Step 5: Drag the Insert Frame option from the Commands list up into the Insert menu and drop it where you want it to appear.

Step 6: Click Close to finish.

With the Frame option on the Insert menu you can reinstate the Frame option on the Format menu too by repeating these steps, this time selecting the Format Frame item from the Commands list and dropping it onto the Format menu.

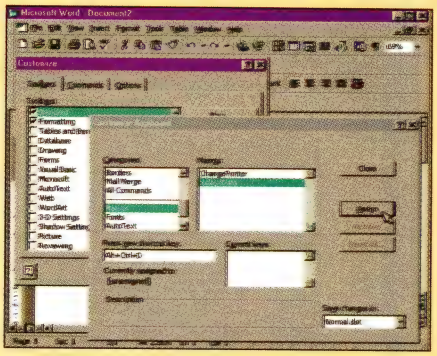
Word 97 hot tip

Current date

The quickest way to add the date to a document in Word is to use Alt+Shift+D. The format of the date you get on your screen when you press this key combination can be altered by selecting Insert, Date and Time. From the Available Formats list select the format to use and select the Default button and answer Yes to the prompt 'Do you want to change the default date format to match . . .?' and click OK. The changes you have made stay in effect until you alter them again. This command places a field code in your document, which means every time you open the document the date will change to display the current date.

To set Alt+Shift+D to insert the date as fixed text, which won't change, insert your preferred date format into a blank document using the instructions above. Press Alt+F9 to display the field details and you should see something like: {DATE \@ "d MMMM yyyy"}. Highlight the text in the quotation marks and copy it to the clipboard using Edit, Copy. Press Alt+F9 to return your document to normal viewing.

Select Tools, Macro, Visual Basic Editor and key in this macro text, replacing the text in the quotation marks with the text you copied to the clipboard:



```
Sub todaysDate()
'inserts today's date as fixed text
Selection.InsertDateTime
DateTimeFormat:="d MMMM yyyy",
InsertAsField:=False
End Sub
```

Select File, Close and Return to Microsoft Word. To assign this macro to a shortcut key, select Tools, Customize, Keyboard and from the Categories list select Macros, from the Macros list select the macro todaysDate. In the Press New Shortcut Key box press Shift+Alt+D to overwrite the current key assignment or Alt+Ctrl+D to create a new key assignment (leaving the old one in place). Select Assign, Close and Close. Anytime you press this key combination you'll get today's date inserted and it won't change when you open this document in future.

Counting words

You can obtain a word count for any of your documents by selecting File, Properties, selecting the Statistics tab and reading the word count from the Statistics box on the screen. To automate this add a word count button to a toolbar by right-clicking the toolbar and selecting Customize. Select the Commands tab and from the Categories list select All Commands. From the Commands box drag the ToolsWordCount command to the toolbar. Right-click on the button and in the Name box remove the ampersand (&) and ellipsis (...) to neaten up the button text or create a custom button face using Change Button Image or Edit Button Image. Click Close to finish.

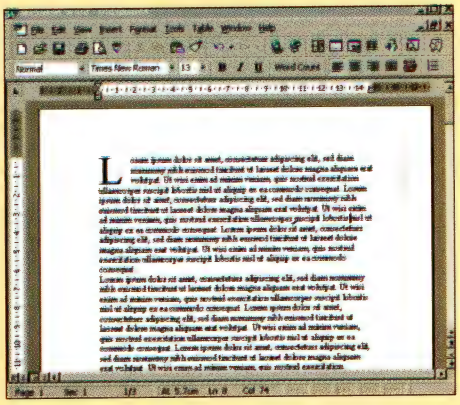
Instant signatures

To make closing letters quick and easy, create an instant signature line for your documents and add it to your AutoText menu so you can use it any time. This way inserting your signature block, including a graphic of your signature, can be achieved in only a few mouse clicks.

To do this, prepare the text for your letter closing and include a graphic of your signature. Highlight the entire area including the graphic and select Insert, AutoText, New and type a name for it that indicates its purpose such as "my signature block" and click OK.

To use your new signature block, position your insertion point in a letter where you want the block to appear and

Word 97 hot tip



Neat page numbers

Create a very different automatic page numbering effect with a Word 97 text box. Use View Header and Footer to move to your document's header area. Select Insert, Text Box and draw a text box somewhere on the screen. In the Text Box type Page, hit the Spacebar and select the Insert Page Number button on the Header and Footer toolbar.

Highlight the page number and text and make it quite large, say 26pt (point) type, and use Format, Text Direction to rotate the text. Size the text box and remove any border by right-clicking on it, select Format Text Box, Colors and Lines tab and select Line Color, No Line and click OK. Move the text box into position on the far-right margin of the page and select Close to return to your document.

select Insert, AutoText, Normal and select the AutoText entry you created for the signature block from the list.

Word 6.0, 7.0 & 97

Collating copies

If you have a printer that repeatedly prints your pages in the wrong order so you have to rearrange them back the right way, your paper sorting days are over. Select Tools, Options, select the Print tab and select Reverse print order. Now your printouts will come in the reverse order automatically, every time.

Be careful using this option if you're printing a document which has an envelope as page 0. Print the envelope first using File, Print, set Pages: to 0 (zero) and click OK. Then use File, Print and set the Pages option to 1- to print the remainder of the document.

All Word versions

Quick fancy characters

AutoText is a handy way of inserting characters, symbols and graphics that you use often and which are cumbersome to locate and insert every time you need them.

To add a symbol or a graphic first insert the symbol or graphic into a document and highlight it. Select Insert, AutoText, New (in Word 6.0 and 7.0 use Edit, AutoText) and type a name for it that is indicative of its purpose, such as 'cent' for a cent symbol, 'em' for the em dash etc. Click OK to finish.

Now when you want one of these symbols as you're typing, type its name and press F3 to have the name replaced by the symbol itself. If you forget the symbol's name, select Insert, AutoText, Normal and select it from the list (in Word 6.0 and 7.0 use Edit, AutoText, select the name from the list and click Insert).

Handy items to create as AutoText include checkboxes, em and en dash (Alt+0151 and Alt+0150), quarter and half (Alt+172 and Alt+171), cent (Alt+155), and your company logo. In fact, anything that takes you time or effort to find or type is a candidate for autotext — even large paragraphs of text. If you include the paragraph marker with a paragraph of text when you highlight it to create an autotext entry, then the formatting of that paragraph will be stored with the text.

Corel WordPerfect 7

Font printout

WordPerfect has a number of built-in macros of which the most useful is probably the one that creates a document for you that includes a copy of all the fonts on your computer. To run this macro first, create a new blank document by clicking on the New Blank Document button on the WordPerfect 7 toolbar. Select Tools, Macro, Play, select allfonts.wcm from the macro list and click Play. The macro will take some time to do its work but the resulting printout is worth the wait.

Other useful macros include:

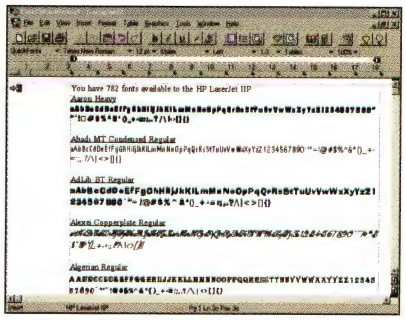
- **Checkbox.wcm** which inserts a clickable checkbox in your document that you can click to add or remove a checkmark.
- **Filestmp.wcm** which puts the current document's filename and path in a header or a footer.
- **Reverse.wcm** which creates white text on a coloured background for the selected text or a table cell.
- **Watermrk.wcm** which asks you for a graphic or some text that it will place in a watermark and centre on the page.

Cropping graphics



In versions 6.0 and 7.0 of Word, graphics can be cropped by holding down the Shift key as you move one of the sizing handles. To restore the graphic to its original size and uncropped shape, hold down the Control key and double-click the image.

In Word 97 the Shift key won't crop a graphic and instead you must first display the picture toolbar using View, Toolbars, Picture and then select the icon with two overlayed + symbols on it. Now selecting one of the sizing handles allows you to crop the graphic. To cease cropping, select the Crop button again. The Reset Picture button at the far right of the Picture toolbar restores a picture to its uncropped and original size.



Quick bullets and lines

WordPerfect comes with a number of quick bullet characters which make starting and creating bullet lists as easy as hitting one of the bullet character keys and pressing the tab key. The bullet characters are:

+	five pointed star
-	long dash
^	diamond
O	large circle
o	small circle
*	small circle
>	small triangle

Once the bullet list is begun, pressing Enter will start a new bullet item. To stop the list, press the Backspace key when a new bullet character appears. You can change the indent by pressing the Tab key at the beginning of a new bullet line; Shift+Tab reduces the indent.

To stop the QuickBullet function, select Tools, QuickCorrect, Options and from the QuickCorrect Format As You Go options list, deselect the QuickBullet checkbox.

You can similarly add a horizontal line from margin to margin by pressing three dashes (—) and Enter at the beginning of a line. For a double horizontal line press three equal signs (===) and Enter.

Lotus Word Pro 97

Document Name and Path

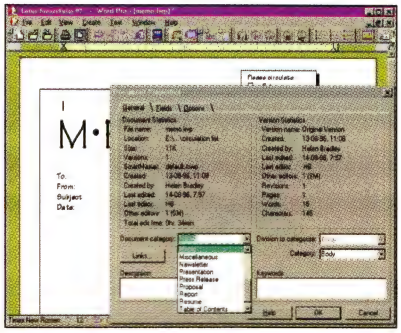
Add the document name and path to the footer of your Word Pro documents and you'll never again lose another file. To do this, first save your document so it has a filename and path and then click in the Footer area of your page or right-click the page, select Page Properties, Footer and click the Edit Footer button. To insert the file details select Text, Insert Other, Power/Doc. Field, click the Document Field radio button and from the Field name list select Path and click Insert. Hit the back slash key and repeat the process, this time selecting Filename before clicking the Insert button.

Once you're used to the process, you can actually create this footer before you save the document, you just won't see any path on the screen and the filename will read (Untitled) until the file is finally saved. Then the full name and path will appear.

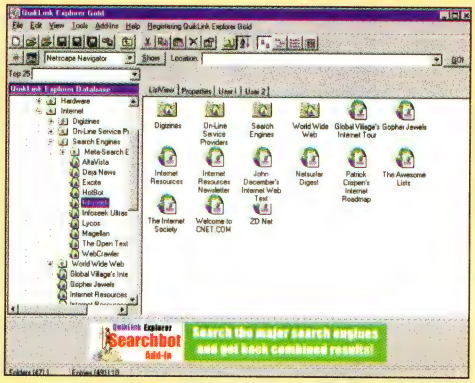
Changing Word Pro defaults

Word Pro's new blank documents are created based on the default SmartMaster. You can change the settings for all new blank documents by altering this SmartMaster. To do this, open the default SmartMaster LOTUS\SMASTERS\WORDPRO\DEFAULT.MWP and make your changes here. For example, to change the default font, position your insertion point inside the document, change the font to your choice of font and select Text, Named Styles, Redefine and select OK. When you're finished, save the default SmartMaster using File, Save and close the file using File, Close. Now all new blank documents will be based on your altered version of the default SmartMaster.

Similarly, you can create your own SmartMasters. Create a document that you want to use as a SmartMaster, such as a memo, letter, or fax cover sheet. When the document is complete with its contents, styles etc, select File, Document Properties, Document and from the Document category list select a category to store your SmartMaster in and click OK. Save your file using File, Save, from the Save As Type list box select Lotus Word Pro SmartMaster (*.MWP) and place the file in your \SMASTERS\WORDPRO directory. Now the file will appear in your SmartMaster list whenever you choose to create a new file using File, New and if you select the Create from any SmartMaster tab you'll find it under the type that you have specified it as being.



Corel WordPerfect 7 hot tip



Quick heading styles

Using WordPerfect's QuickFormat command you can quickly create a heading style based on an existing heading and paint this format onto other headings. To use this function, format one heading in your document the way you want this heading level to look. Highlight the entire heading including the hard return character at the end of the heading line and select Format, QuickFormat, select the Headings radio button and click OK. The mouse pointer appears as a paint roller that you can use to click on all the headings you want to format — just click somewhere in the heading, you don't need to highlight it. To stop applying the format, select Format, QuickFormat or right-click on the page and select QuickFormat.

All the headings formatted using QuickFormat are linked together, so making a change to the formatting of one heading will automatically alter the formatting of all the other headings. You can repeat this entire process for second and third level headings.

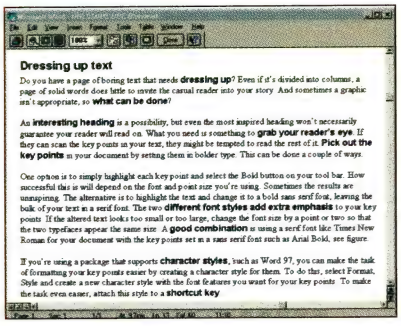
Hot design tips

Visually please your audience with Helen Bradley and Annette Castles' design ideas.

What you need	User Level
Word 6.0, 7.0 or 97	Easy — Expert

Dressing up text

A page of solid text does nothing to invite the casual reader into your story. Sometimes you can't locate an appropriate graphic so what you need is something else to grab your reader's eye. If your reader can scan the key points in your text, they might be tempted to read the rest of it. So pick out the key points in your document and set them in bold type. You can do this one of two ways.



One option is to simply highlight each key point and select the Bold button on your toolbar. How successful this is will depend on the font and point size you're using. Sometimes the results are uninspiring. The alternative is to highlight the text and change it to a bold sans serif font, leaving the bulk of your text in a serif font. The contrast in font styles adds extra emphasis to your key points. If the altered text looks too small or too large, change its size by a point or two so the two typefaces appear the same size. A good combination is using the serif font Times New Roman for your document with the key points set in the sans serif font Arial Bold.

If you're using a package that supports character styles, such as Word 97, you can create a character style for your key points. To do this, select Format, Style and create a new character style with the font features you want for your key points. Attach this style to a shortcut key to make it even easier to use.

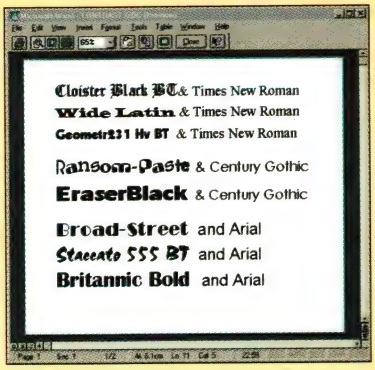
Two's company

To create a startling two-word heading, set each word in a different font type and weight and place one word partly over the top of the other. The figure shows FutureBlack combined with Brush, which gives a startling contrast in movement, weight, size, case and colour. The word 'Hot' is heavy, stable, large, uppercase and red in contrast to the word 'Shots' which, because a script font has been used, is actually moving off the page.

To create this effect, use the drawing function in your word processor, as this is often the only way you can position two 'layers' on top of each other. Most word processors have a text box in their drawing toolbox that you can use. Place each piece of text in its own text box and use the layering option to move one box on top of the other. Line them up so the baseline of each piece of text is the same as this strengthens the effect.



Weight control



Weight in typesetting refers to the thickness of the strokes in a font. Some fonts are thick and heavy and some are light and spindly. Others use a combination of thick and thin.

Using contrasting weights is an effective tool in page design. Variety in the weights of your headings and subheadings not only adds interest to your document, making it attractive to read, but it also makes it clear what ranking information has — the larger the heading the higher its level in the document.

If you set your headings using the bold version of your base font, such as Times New Roman, you may find there's not enough visual contrast between it and the regular version to make a strong impact. A more effective solution is to use a combination of fonts and font sizes for your headings. But remember, less is more, so choose one font to set against your base font and experiment with different sizes of this second font for different levels of heading.

The figure shows some examples where the fonts work well together. You can use these for headings, an index or a table of contents. The more daring you are in your choice of fonts to combine, the better they'll work together. As a rough rule of thumb, combine heavyweight fonts with lighter weight ones of a different type and steer clear of combining fonts that are too similar.

Successful attention grabbing



Setting text in a large font size is a good way of grabbing your reader's attention — the bigger the size the more attention your page gets.

While this is fairly simple if your text is one or two short words, it won't work so well if it is longer. Setting long text generally requires a compromise to be reached between font size and the amount of space the text will take up. One trick is to let the words help each other. Pick the most important word in your text and set this in large type so it can do the work of grabbing the reader's attention. The other, less important, words can be set on a second line in a smaller type — they'll get read when the more important word has done its job of hooking the reader's eye.

Use plenty of contrast between the font you use for each line so that this acts as an eye grabber and, to strengthen the result, make each line the same length. You'll find the results are spectacular if you adjust your line length not by adjusting the font size but by increasing the spacing between the characters. This allows you to leave text at a small point size and yet have it take up a larger horizontal space.

The above screenshot shows four possibilities for the same piece of text fitting into a given amount of horizontal space. The first two options are weak; either the size of the type is too small or the vertical space it takes up is too large. The third option uses the one font, Arial Bold, and the result is stronger but still lacks real attention grabbing power. In the final example, the text has been stretched by increasing the inter character spacing, and the two fonts used, Aaron and Century Gothic, contrast strongly in weight and size and the reader's attention is guaranteed.

In WordPerfect the Justification, All option allows you to easily stretch text to fit a given space. In Word Pro, select the text and right-click on it, select Text Properties, Misc tab and increase the Kerning percentage up to 100% to stretch the line. In Word 97, select the text and use Format, Font, Character Spacing and in the Spacing list box select Expanded and increase the By point size by trial and error until the text is the right length.

To make it easier to move the words around, click on the first box and then, holding down the Shift key, click on the second and select the Group option in your drawing toolbar. This will 'connect' the two boxes so that they move as one. If you're working in black and white, a similar effect can be obtained by colouring the first word grey or silver instead of red.

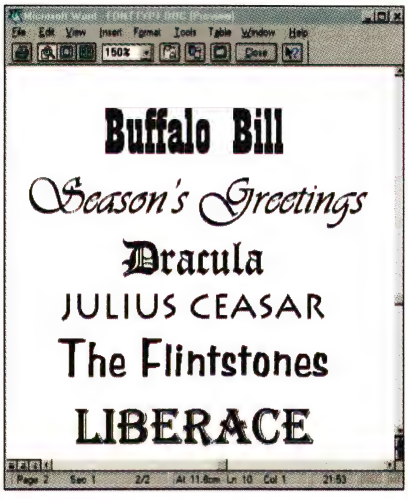
Type-onality — fonts have feelings, too!

Because of repeated usage, certain fonts have become synonymous with particular messages, seasons or people. The right font choice can strengthen the meaning behind your words, so much so you hardly need to read them.

Buffalo Bill is a name we associate with the Wild West and the font Playbill is a font from this era. Its bold strong lines are exactly what we'd expect to see on a poster depicting a Wild West show or a 'Wanted' poster. In contrast the flowing lines of a font like Vivaldi is often seen as the perfect signature of Christmas or a wedding invitation.

Dracula demands a Gothic font like Cloister Black, Fraktur or Black Chance. These fonts, with their heavy black lines and serifs, reflect the sinister nature of the famous Count. And, although Caesar was Roman, not Greek, the hieroglyphic styling of the font, Greece, is often used to depict the times and people of the ancient Empires.

Very black and white, and so completely over the top, the flowery Algerian font introduces Liberace before we even read his name. The same happens with the Flintstones if they are set in Benguiat Frisky, the rugged and ragged letters of this font could be carved from stone.



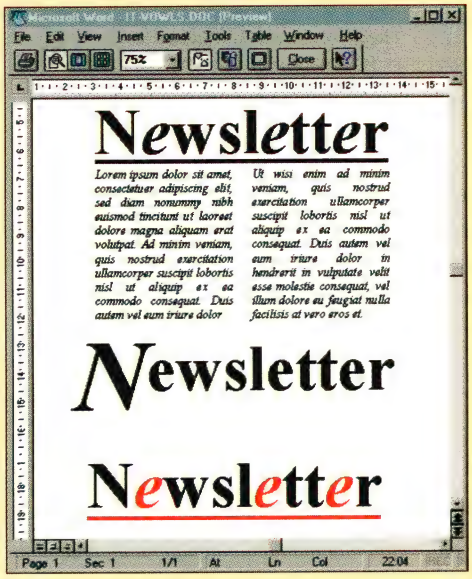
In each case you'll find that the particular font has become so strongly associated with a time or place that we hardly need to read the words — the typeface does all the work. However, if you mix them up, they'll soon suffer an identity crisis. So when choosing fonts, consider the character of your design and match it with fonts with the same personality.

And, remember, don't select one of these typefaces for your entire document — they're too strong to use for all your text and their impact will be lost if you do. Instead, use them in headings or for your main text and combine them with a plain font which won't detract from their message.

Finetuning forms

Forms need to be disciplined to work well. To design a form, be clear about the information you need to collect — don't waste time asking for anything that you won't use. Group the information so that personal information appears in one place and other information which is interrelated appears together. There's seldom any valid reason for asking for the same piece of information twice (for example, a person's name) or having

Italic vowels



A simple and stunning headline technique is to set every vowel in a headline in italics. This effect works well on posters and flyers and will work in a newsletter where you can set the remainder of the text in the column to italics, so the effect is 'repeated'. This heading is simple to achieve, just highlight each vowel in turn and click the Italic button on your toolbar.

A variation on the theme is to highlight just the first letter of a phrase with italics. Or, if you have a colour printer, use colour instead and make each vowel a second colour, or perhaps colour and italics. Experiment with different effects, you'll find one to match the mood of your document whether it be modern or whimsical.

someone sign the form twice, so work to eliminate duplication.

The English language is read left to right and top to bottom. As this is the flow we are most comfortable with you should use this pattern to place your collection areas on your page. Set the 'office use only' part of the form aside from the rest of your information and box it so it stands apart visually. Include instructions for completing the form and, if it must be returned with other documents or a cheque, make this clear with a checklist in the bottom corner. Make sure the form includes information telling your user how to return it to you. Also record the date of creation in very small type (say 5pt to 6pt) in a bottom corner, as this makes it easier to identify and discard old versions if the form is updated later on.

The great white space

It's easy to fall into the trap of filling every available space on your page with text or graphics. There's no need to fear empty space; in fact, 'white space' as it's called, can help guide your reader into and around your document. The trick is to get it organised. Nothing on your page should happen by chance, including empty spaces.

If you centre-align your text, for instance, the white space falls on either side. It is comfortable for the eye because it's balanced, and the shape the text forms on the page is mirrored along the page's centre line.

If you butt text up to a graphic, the white space between them forms a strong line that ties the two elements together. The reader can immediately see the relationship.

Or, let's say you have a list of subheadings with text beneath each one. By lessening the white space between the heading and the text below it, you clearly define their connection. Make the space above the heading larger and repeat this same size space for each new heading to show the reader that all the headings share an overall relationship.

White space can also help you grab a reader's eye. Look in the classified pages in your newspaper and notice how your eye is immediately drawn to the item with the most white space above and below it. In this instance the advertiser has bought space and then resisted the urge to fill it. Consequently their advertisement becomes the first one on the page to be read.

An understanding of white space adds sophistication to your work. The finish is polished and you display a subtle professionalism.

Up close and personal

Whether you're creating a marketing flyer for your business, a cover page for a report or an invitation to a housewarming, one of the most important skills in successful design is the understanding of proximity. Proximity refers to the way you group the pieces of information on your page, deciding which bits should be closer together and which should be further apart.

Placing pieces of information close together indicates they share a relationship. Group the wrong details and your reader may become confused, or worse still, stop reading. Group the right details together and they become one visual unit. Your design will grab, and keep, your readers' attention, making sure they absorb your message.

So how do you control proximity? You probably already do, quite naturally. But by being aware of its importance, you'll be able to make the concept really work for you. Take a close look at the details you need to include in your design. Notice which pieces of information have an association with each other, which need to be emphasised, and which, for instance your reference number, are less important.

Now organise these pieces into groups and organise the groups on your page. Start with the most important first, for instance the title, or the name of your business. Next arrange the secondary information. Finally, any necessary but less significant information can be added in a small font size.

Don't create relationships between elements that don't belong together. If they're not related then move them apart from each other. Remember that proximity is all about how close information is to other information and placing text apart from other text reinforces that these items don't share a strong relationship.

When is a line not a line?

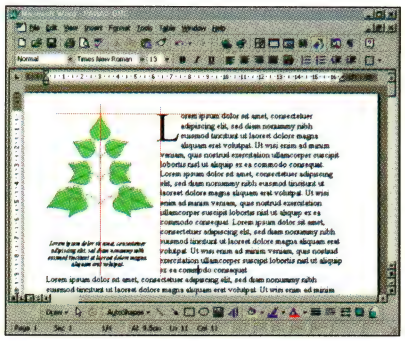
When it's invisible! A common trap for new designers is the over use of borders. It's tempting to put borders around everything in an effort to keep the information connected and to attract attention. While borders can be useful for strengthening a page or for grouping information, using them too much can distract from your

page. A more subtle alternative to using borders is to use alignment — the effect is the same but it is less obvious how you have achieved it.

Alignment has to do with the invisible lines connecting the elements of your design. Your headings, text and graphics can share common boundaries, or borders, which connect them to each other. These boundaries or invisible lines are called edges and baselines, and when more than one element shares the same line, your design is sharper and cleaner. The most obvious line you have on a page is the left margin and if your text is fully justified, then you have two strong lines — the left and right margins. When you're positioning any headings, graphics or text, line them up with one of these existing lines and they'll look neater than if you simply place them anywhere on the page.

Invisible lines can also be used to indicate a relationship between certain elements. Even though there may be a number of items on your page, your reader will subconsciously know which ones belong together if they line up together.

When you design your page, make sure every item has a visual alignment with some other item. Left- or right-align blocks of text along with their headings and never centre headings over left-aligned text. If your graphic has a hard edge make sure this forms a baseline with accompanying text, or that its caption is aligned to its edge. If you have a graphic with an obvious centre line, then you might choose to centre the caption under it to reinforce their relationship. You'll find that any item that is not connected to another item by some line will appear to 'float' on the page and will distract your reader.



Often good design is as simple as taking the obvious and doing the opposite, so be adventurous about where you put your invisible lines. If you have a piece of text and an accompanying graphic you can put the text to the left of the graphic, but right-align it so it sits tight against the picture. This way you'll form a strong connecting line between the two items. If you have a graphic logo next to a heading, connect them by choosing a heading text size large enough so that a line along the top of the heading extends across the top of the graphic and that they both sit on the same baseline.

Alignment has such a strong effect that often the quickest way to 'make over' a messy document is to pick three or four strong lines in the document and to line everything up with one or more of them.

Snappy letterhead

When you need a letterhead for a special occasion, here's an idea for something that's a little different and yet easy to do.

Look through your graphics software for a 'corner' picture. Corel Gallery has a large range in the Theme Border and Simple Border chapters, but most graphics and clip art collections will have some for you to choose from. Using your word processor, insert the graphic into your page and position it in the appropriate corner for its shape. To balance the page use the Drawing Toolbar's line tool to draw a line on each of the two opposite sides of the page. You'll need to experiment with the line weight to make sure the lines balance the weight of the graphic. If the lines are too light the graphic will appear too heavy and vice versa.

If you use the Snap to Grid function, you'll find it easy to get the lines to meet in the corner opposite the graphic. And be sure to check the alignment of the graphic and your two lines. If the lines and the graphic 'line up', they'll form an invisible border that will connect them visually. Save this letterhead as a template document and you can use it again and again.

Résumé checklist

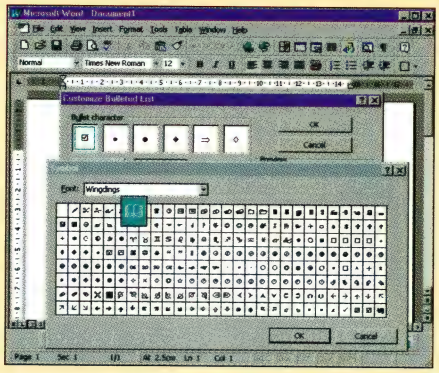
Your résumé should be updated every couple of years, so here is a checklist of ideas for making it a trim and terrific vehicle for selling your skills:

- reduce it to two to three pages;
- begin each skill with a verb such as 'organise', 'facilitate', 'create' to cut down on words and maximise its impact;

Bullets

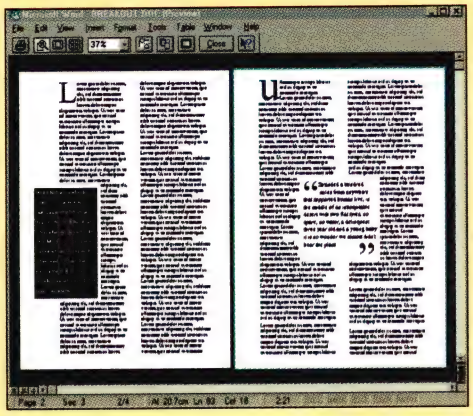
Bullets add order to a list of points in your document making it more interesting and easier to read. Unfortunately the collection of circles and squares that pass for bullets in your word processor are not particularly exciting. It would be far more appropriate to have a bullet in the shape of a golf ball for a golf club newsletter, a bottle of wine for your Christmas table menu, a smiley for your roster of chores hanging in the kitchen, or a snowflake for a 'remember to pack' list for your winter holiday.

Most word processing packages will allow you to modify your bullets. For instance, in Word 97 click on Format, Bullets and Numbering, select a bullet list style, select Customize and select the Bullet button. You'll be offered a choice from the Symbol font and if you drop down the font list you can choose from many other fonts.



What appears in your list depends on the fonts on your system but you should have at least one Wingdings font and others such as Milestones and CommonBullets may appear there, too. Check each of the fonts available to see what is there. Select a font and a bullet from that font and select OK twice to use the bullets in your document.

Attract the eye



You can break up text-heavy pages and make them more attractive to the eye by using text to draw your reader into the page. To try this effect you'll need an eyecatching sentence from your text (or a testimonial etc). Copy the text and using a frame or text box (depending on your software) paste the text into the box and size it much larger than the page text. You can reverse the colours so that the box background is black and the text white (use a sans serif font for the text) or you can draw attention to your effect with a set of large quote marks.

Increase the line spacing for the text so that it is set apart visually from the text on the page; if you're using colour you can set this in a different colour or a shade of grey. Place the text box so that it begins in the middle of a paragraph, not just after, or you'll interrupt the reader's attention. There are numerous effects you can use for breakout text, including shaping your text and placing it in odd positions on the page.

- highlight the important parts — don't make the dates bold when the job descriptions are more important;
- keep a consistent style throughout and lay each page out with the same column structure;
- use the spell checker just before you print;
- add your date of birth (if you must) not your age and you won't have to change this each year;
- tailor it to the needs of your prospective employer;
- use lots of white space to make it attractive to read;
- use a 12pt serif font for the main text to improve readability;
- use bullet points.

Spreadsheet tips

Refine your spreadsheet skills with Helen Bradley's tips for Excel, Lotus 1-2-3 and Quattro Pro.

What you need **User Level**
Excel 97
Lotus 1-2-3 97
Quattro Pro 7
Easy **Expert**

Excel 97

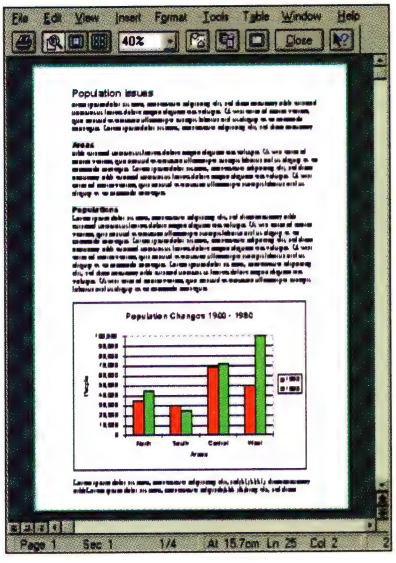
Changing a chart range

If you've used the Chart Wizard to create a chart and if you later find that the area you have selected is incorrect there is no need to recreate the chart. Simply select it, select the Chart Wizard button and move to Step 2 of the Wizard dialogue where the Data range is listed. Select the Collapse dialogue button at the right of the text box and highlight the area you want the chart to be based on. Click on the Collapse dialogue button again to return to the Wizard and select Finish. Your chart will now show the new range.

Plotting two series differently

In Excel you can mix chart types, for example, overlaying a column chart with a line graph. To do this, create the chart using the type that most of the chart will be plotted as. Then select the series to change the chart type for, right-click on it and select Chart Type. From the Chart Type dialogue select the type of chart for that particular series from the Standard or Custom Types tab and click OK.

You can add a second Y-axis for this series if you wish by selecting it, right-clicking on it and selecting Format Data Series. Select the Axis tab and select Plot series on Secondary Axis and click OK. Select this axis, double-click on it and you can format it differently to the other axis if you wish.



Automatic data entry

Excel's AutoComplete feature is handy when you have a data entry task where the entries are repetitive. However, if they are not, it can become annoying to have it turned on. You can turn it off by selecting Tools, Options and select the Edit tab. Clear the Enable AutoComplete For Cell Values checkbox and click OK.

Create a macro to toggle this setting by selecting Tools, Macro, Macros, in the Macro Name box type ToggleAutoComplete, in the Macros In list box select personal.xls and select Create. Now key this in as the procedure:

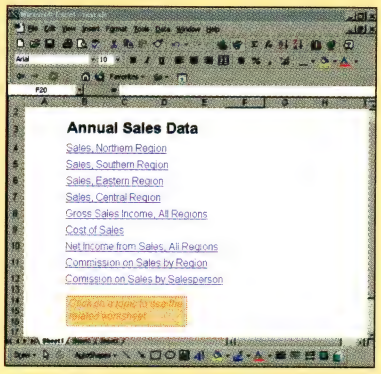
```
Sub ToggleAutoComplete()
    Application.EnableAutoComplete =
Not (Application.EnableAutoComplete)
End Sub
```

Select File, Close and Return to Microsoft Excel.

Excel 97 hot tip

Hyperlink to a local document

You can use the Hyperlink function in Excel 97 to create links that open other local documents, such as another Excel worksheet or a Word 97 file. To create these links:



Step 1: Open the document which will contain the link and the document to be linked. Make sure both documents are saved where they will remain on your hard drive.

Step 2: Activate the document to be linked, highlight the text to be linked to and select Edit, Copy.

Step 3: Switch to the Excel worksheet that will contain the link, move to the cell to contain the link and select Edit, Paste as Hyperlink. Save this workbook.

Step 4: You can alter the text of the hyperlink by right-clicking on the hyperlink and selecting Hyperlink, Select Hyperlink. Type the text you want to be the anchor text and save the worksheet.

You can add this macro to a toolbar by right-clicking the toolbar and selecting Customize. Select the Commands tab and from the Categories list select Macros. From the Commands box drag the Custom Button onto the toolbar and right-click it. Select Assign Macro from the menu and from the Assign Macro dialogue box select the macro ToggleAutoComplete and click OK. If you right-click again on the button and select Edit Button Image, you can create a custom button face or select Change Button Image to select one from the list. When you are finished select Close in the Customize dialogue to return to your file.

Excel 5.0, 7.0 & 97

Add tooltips to custom buttons

To add a tooltip to a custom button, you'll need to use Excel's VBA functions. Select Tools, Macro, Macros and type in the Macro name NameToolTip, select Macros In personal.xls and select Create. Type this macro text (the Sub and End Sub statements will already be there):

```
Sub NameToolTip()
toolTipName = InputBox("What is the text for the tooltip", "Name of Tip")
toolTipToolbar = InputBox("What is the name of the toolbar", "Name of Toolbar")
toolTipNumberString = InputBox("What is the position number, include dividers", "Position Number")
toolTipNumber = Val(toolTipNumberString)
Toolbars(toolTipToolbar).ToolbarButtons(toolTipNumber).Name = toolTipName
End Sub
```

Select File, Close and Return to Microsoft Excel. Run the Macro using Tools, Macro, Macros, select the macro and select Run. Fill in the text boxes by first typing the name you want to appear as the tooltip text, then the name of the toolbar you have attached the custom button to and finally the position this button has on the toolbar. To calculate the position number count the visible items on the toolbar, left to right, starting at one, including the dividers.

The macro will create tooltip text for the custom button. Test that it has worked by placing your mouse over the button. Once named, the button's tooltip text will remain the same until you alter it again. You can run the macro at any time to alter the text or name a different custom button.

The macro has no error checking, so you'll need to be careful when you use it. For example, make sure you use the exact name of a toolbar; check this by selecting View, Toolbars and reading off the name from the list of available toolbars. The macro also serves no purpose other than to name custom buttons, so there's little use in attaching it to a toolbar unless you create a lot of custom buttons. It's best left in your personal.xls worksheet as this is opened whenever Excel is loaded and you can run it at any time using Tools, Macro, Macros.

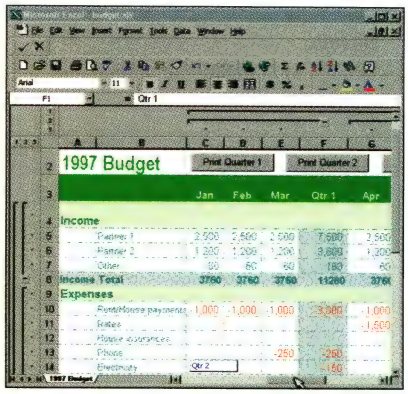
To create this macro in Excel 5.0 and 7.0, you'll need to add a macro sheet to your personal.xls file (unhide using Window, Unhide if necessary). Key your macro in a module sheet in the file and save it and hide it again (Window, Hide). To run the macro use Tools, Macro and select the macro name and click Run.

Excel 7.0 & 97

Moving with accuracy

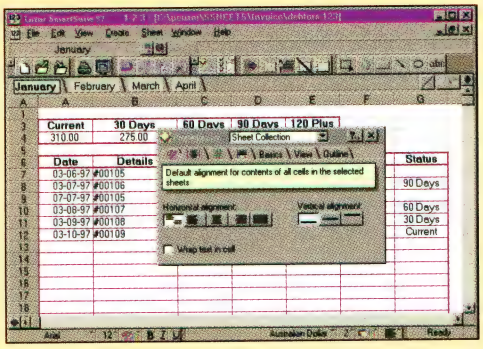
When you have a particularly wide worksheet to get around it can be difficult to use the horizontal scrollbar to move accurately. You'll find that as you drag the scrollbar, Excel will only show you the column letter, not what the column contains.

To improve this add a new blank row at the top of your worksheet by selecting



the first row and select Insert, Row. Now select the row in your worksheet that contains the column headings (click the row number to highlight the entire row). Select Edit, Copy and highlight the new row you've created and select Edit, Paste. Now, with the row still highlighted, select Data, Filter, AutoFilter and you'll see a series of down pointing

Lotus 1-2-3 97 hot tip



Changing sheet properties

You can alter the properties of a number of Lotus sheets at the same time by selecting the sheets to alter. To do this, click on the sheet letter (or name) once, pause and click again, now hold down the Control or Shift key and click on the other sheets you want to change. When they're selected, right-click and select Sheet Properties. From this dialogue you can change selected properties for the selected range of sheets. When you are done, close the Info box and click anywhere in a worksheet to deselect your selection.

arrows appear along the row. As the purpose of this row is just to make moving easier, you can hide it by selecting Format, Row, Hide. Now, when you drag the scrollbar, you'll see the column heading instead of the column letter.

All Excel versions

Erasing, clearing and deleting

There are a number of different ways of removing information from a worksheet. The method you should use depends on what it is you are trying to remove. Highlighting a cell and pressing the Delete or Backspace keys removes the cell's contents but doesn't remove the cell's formatting or any comments.

To remove the contents or formats highlight the cells and select Edit, Clear. Choose Formats, Contents or Comments to clear these from the cell or choose All to remove all three.

The final option is to use Edit, Delete. This allows you to remove the actual cells from your worksheet. The most common use is to remove entire rows or columns. Be sure that before you choose to Shift cells up or Shift cells left that this is what you want to do. These options actually delete the highlighted cells from your worksheet and close up the space by moving cells from the columns to the right or the rows below to fill it. If you make a mistake, use Edit, Undo to undo it.

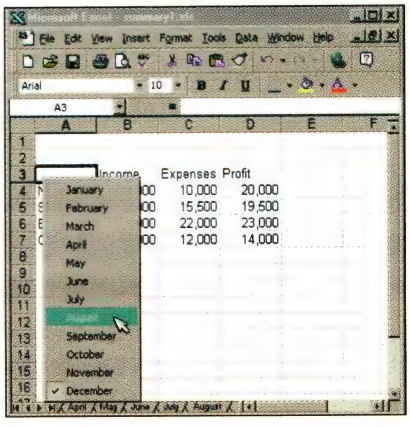
Selecting a sheet

If you have a large number of sheets in a workbook you'll find that you won't be able to see all the sheet names along the bottom of the screen at the one time. This means that finding a sheet whose name is not visible is difficult if you simply use the tab scrolling buttons in the bottom-left corner of the screen. These buttons move you either one sheet at a time through the list or move to the first or last sheet in the book. Finding one particular worksheet in a workbook this way can involve many mouse clicks.

However, if you right-click these tab scrolling buttons you'll see a list of all the sheets in your workbook. Simply double-click on the sheet you want and you'll be taken directly to it.

Setting startup options

There are a number of handy startup options you can set from the Tools, Options menu. Select the General tab and you can change the default font and font size for all future new worksheets, the number of sheets that a new workbook contains (remember you can always add more using Insert, Worksheet) and the number of recently used files that appear at the foot of the File menu (Excel 7.0 and 97). You'll have to restart Excel before any setting you have changed will take effect.

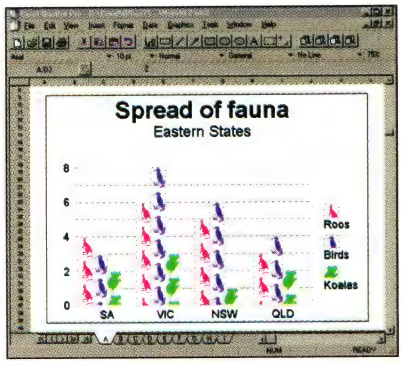


Using the Color tab you can replace any of the standard 56 colours from the palette with a different colour. This is handy if you're looking for a special shade when preparing information that will ultimately be colour printed or used for slide presentations.

Lotus 1-2-3 97

Freezing column and row headings

If you have more columns or rows in your worksheet than will fit comfortably on the screen, you can freeze the column and row headings so that you can move around the worksheet more easily. To do this, position the worksheet on the screen so that the titles are in the position that you want them to be; this will usually mean that they're up in the top-left corner of the screen. To fix the headings you can use



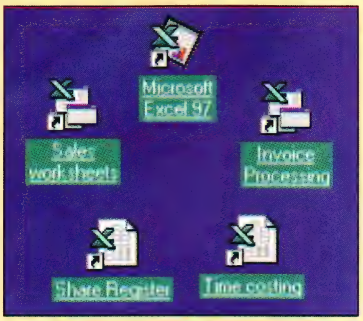
the mouse by positioning it above (or to the left) of the first row (or column) until it changes shape to a line with a double arrow on it and drag the divider down (or to the right) over the headings. Alternately you can place the mouse in the cell immediately below and to the right of the heading row and select View, Titles and select both the Rows Above Current Cell and Column Left of Current Cell checkboxes and click OK.

You'll notice the row and column headings look a little different when they're frozen as titles and wherever you move in your worksheet the row and column headings will remain fixed.

To undo the titles, select View, Titles

Excel hot tip

Start with a particular file



If you usually work in Excel on a particular worksheet you can create an Excel icon to open this sheet when Excel starts up. To do this, open My Computer or Windows Explorer and find the file you want to open. Highlight the filename and select Edit, Copy. Switch to the Desktop and right-click and select Paste Shortcut. This creates a shortcut to your Excel file. You can rename the shortcut by selecting it, right-click on it, select Rename and give the icon a new name. You can create icons for all the Excel files that you regularly use.

You can also create one icon to open a group of Excel files. To do this, you'll need to first create a Workspace file. Open all the files you want to treat as a group and arrange them as you want them to appear on the screen. Select File, Save Workspace and give the Workspace file a name and a location. Now create a shortcut to this file as you would any other Excel file. In future, if you move any of the files which are contained in your Workspace file to another directory or delete any, you'll need to recreate your Workspace file.

and deselect the checkboxes and click OK. Alternately, you can use the mouse to reverse the process. It will change shape when you're in the correct position to drag the frozen titles back off the worksheet.

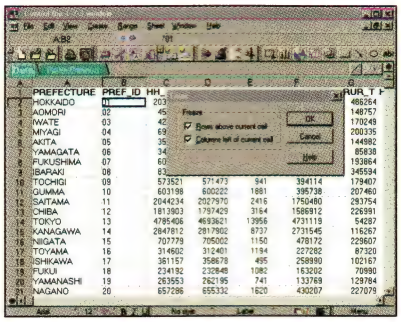
Changing formulas to values

Often you'll want to change formulas to values, so, instead of the equivalent of =4+6, the cell will contain the value 10. You can do this by highlighting the cells to change and select Edit, Copy. Without moving, select Edit, Paste Special and select the Formulas as Values checkbox and click OK. This will paste the values over the top of the formulae that created them.

Quattro Pro 7

Creating a chart with pictures

Quattro Pro allows you to create wonderful charts using bitmap pictures instead of colours. To create a chart with pictures, first create a bar chart based on your data with the headings and legend text that you want. Then select the first series to alter by clicking on one of the coloured bars. Right-click and select Bar Series Properties, select the Fill Settings and from the Fill Style list select Bitmap. Click on the folder button and locate an appropriate bitmap image on



your disk. Experiment with the Tile to Fit, Shrink to Fit and Crop to Fit settings and select OK to continue.

Repeat this process with each of the remaining bars. You might need to widen the bars so that your graphics display better. To do this, right-click on a column and select Bar Series Properties, select the Bar Options tab, increase the Bar Width Percentage and select OK to finish.

Changing the default workbook

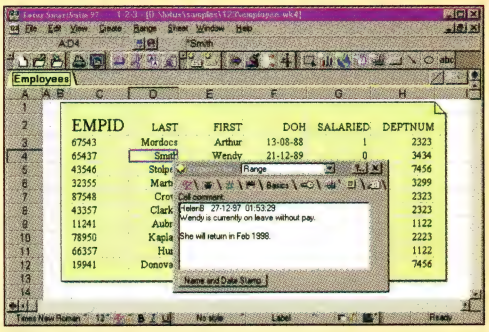
You can alter the default directory that Quattro Pro stores your files in and your starting workbook by right-clicking on the Quattro Pro application titlebar. From the menu select Application Properties and select the File Options tab. Set the Directory to point to the directory that you want to store your files in. If you always want Quattro Pro to begin with a certain file open then place this filename in the Autoload File text box. Click OK to finish.

Printing on multiple pages

When you print a large worksheet that covers a number of pages, you'll generally want to display the column and row headings on each page of your document. To do this, select File, Print, Sheet Options. In the Top Heading text box select the row or rows that you want to print at the top of each page. In the Left Heading select the column or columns that you want to print at the left of each page and click OK.

Because you have specified these rows and columns to print on every page, you won't want them to appear twice, so omit these cells from your print range. If your worksheet extends from A1..M100 and your headings are in column A and the first four rows, then your print block will be B5..M100 (not including column A and the first four rows). To set a print range, select Block Selection from the Print dialogue and select the area to print (not including the header rows) and click Print to send it to the printer.

Lotus 1-2-3 97 hot tip



Cell comments

Comments are handy for adding 'hidden' notes to cells. You can read the notes but they won't clutter your worksheet. To create a comment, select the cell for the comment and select Range, Cell Comment. Type the text for the comment (up to 1024 characters) and select Name and Date Stamp if you want your username and the date included in the comment. Close the Info box. You'll see a small marker in the top-left corner of any cell with a comment and you can view the comment by right-clicking the cell and selecting Cell Comment. Remove a cell comment using Edit, Clear.

HTML tips

From creative buttons and fancy lists to effectively using fonts — John Hilvert and Helen Bradley's hottest tips for Web authors.

What you need	User Level
Word processor Internet Web publishing access	Easy — Expert

Unless otherwise noted, these tips are based on the current HTML 4.0 working draft (http://www.w3.org/TR/WD-html40-970708/). If some of the examples don't seem to work with your browser, we suggest you upgrade to the latest versions which offer better support for HTML 4.0 and which are available on this month's cover CD-ROM. Unfortunately, not all browsers (even the latest version ones) support all elements in the working draft, so you may find that some of these samples work better with one browser than another.

Font issues

Apart from using style sheets you can set fonts in your Web page using the BASEFONT and FONT tags. The BASEFONT tag sets the base font for a page, it has no closing tag and is positioned in the Body of the document.

You can set the font's face, size and/or colour using this tag. For example, <BASEFONT FACE="Geneva, Arial, Helvetica" SIZE=+1 COLOR=maroon> gives the browser a choice of font types. It will search for Geneva and if it is located it will be used, if not, the browser successively looks for Arial and then Helvetica. If it can't locate any of the fonts, the browser uses its own default font.

The text size (SIZE = +1) attribute sets the base font one size larger (+1) than the default font, which is size 3 on a scale of 1 to 7. Font sizes can be absolute or relative. Absolute font sizes are represented by any integer value from 1 to 7. Relative font sizes are defined relative to the current font and are created by prefixing the size with a + or - to select a larger or smaller font, so SIZE = -2 selects a font two sizes smaller than the current font.

The colour of the font can be represented by one of the 16 named colours or by the colour's RGB notation.

The <FONT>...</FONT> tag allows you to alter the font for an element such as a heading or a paragraph. This is a typical use of the FONT tag: <FONT FACE="Geneva, Arial, Helvetica" SIZE=+1 COLOR=maroon>Text...</ FONT>. You can use any combination of font face, colour and size and, unlike the BASEFONT tag, you must provide the closing tag. If you use relative sizes then the size will be in relation to the base font.

Note: There is some controversy raging over the use of absolute font sizes and you should see http://www.mcsr.olemiss.edu/~mudws/font.html for a discussion of the issues. In general, steer clear of using absolute font sizes because of the unpredictable consequences in browsers that are set to translate sizes differently. While relative sizes are useful, cascading style sheets are a better alternative. The same caution should be taken with font colour attributes and HTML 4.0 suggests avoiding using HTML elements and attributes for specifying colour and using style sheets instead.

Of fonts, headings & indexers

While you can create fancy 'headings' for your HTML documents using the <FONT>...</FONT> tags it is not recommended that you do this if your site is to be indexed or have a table of contents. Many indexers and Table of Contents creators will use the Heading tags as elements in the lists they create.

If your headings are created using the <FONT>...</FONT> tag then they won't be picked up in the indexing process. Instead, use heading tags for all the headings on your site and use H1 for the top level, H2 for the next level etc. If you want your headings to appear differently than the browser renders them, redefine them using a style sheet. Only use the FONT tags for minor text enhancements.

Merging links

You can format the way your anchor text looks using a style sheet. One use for this is to make visited links partially 'disappear' into your text by making them look more like the surrounding text and less like links. While you can use this technique to make visited links totally disappear, this is not recommended as

Web fonts download site



You can get free Web fonts for your system from the Microsoft font download site. You'll find this at http://www.microsoft.com/typography/ fontpack/default.htm

Many of these font files are suitable for both Windows and Mac environments and are self installing. Some fonts are grouped into fontpacks so you can download and install a range of fonts at once.

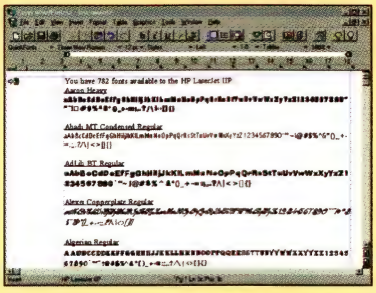
If you're a Web designer you can use these fonts on your Web page as an alternative to Times New Roman and Arial and you'll also find there's a Web 'dingbat' font called Webdings. Even if you're not designing Web pages, you'll want these fonts installed on your system because designers will be using them and if you don't have them installed you won't see the pages as they are designed to look.

Generic font names

To overcome the issue of the fonts you specify not being available on a user's system and to allow some flexibility in font styles, there are now five generic font names that you can use. These are:

- Serif, eg, Times
- Sans-serif, eg, Arial or Helvetica
- Cursive, eg, Zapf-Chancery
- Fantasy, eg, Western
- Monospace, eg, Courier

You can use these font names in the BASEFONT and FONT tags and in style sheets as you would any other font name. These allow you to specify fonts by name and also list a 'catch all' font style that will be used if the specified fonts cannot be located. Place the particular fonts that you want to use in the list and then follow it with a generic font name. For example, <BASEFONT Face = "Comic Sans MS, Monaco, cursive"> instructs the browser to use Comic



Sans MS if it is present, and if not Monaco, and if that is not present then the browser's default cursive font.

When you're naming fonts, use the correct capitalisation of the font name and its real name. If you're unsure of the font name select Start, Control Panel, Fonts and double-click on the font icon to read the font's name from the screen display. If a font name has spaces in it and you're using it in a style sheet, place the font name in quote marks, for example, P { font-family: "Comic Sans MS", Monaco, sans-serif } or <P STYLE="font-family: 'Comic Sans MS', Monaco, sans-serif">.

it makes it too difficult for your users to locate sites they want to revisit.

The three link types — link (an unvisited link), visited (a visited link) and active (a link being selected) — each have a corresponding anchor pseudo-class: A:link, A:visited and A:active, and these can be individually formatted using a style sheet.

For example, this style sheet rule removes the underlining from all visited links: A:visited { text-decoration: none }

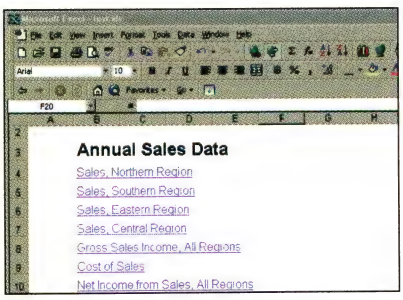
This rule will remove it from all the links: A:link, A:visited, A:active { text-decoration: none }

This rule formats a visited link to grey text and no underlining so it will be visible and selectable but not obvious in the midst of surrounding black text: A:visited { text-decoration: none; color: grey }

You can achieve a similar effect without a style sheet by setting the VLINK, ALINK and LINK attributes of the BODY tag. LINK sets the colour of an unvisited link, VLINK is a visited link and ALINK is an activated link. Both these examples give you blue background text, red links, black visited links and green active links:

```
<BODY TEXT ="#0000FF"
LINK="#FF0000" VLINK="#000000"
ALINK="#00FF00"></BODY>

<BODY TEXT = blue LINK= red
VLINK=black ALINK=green></BODY>
```



Font colours

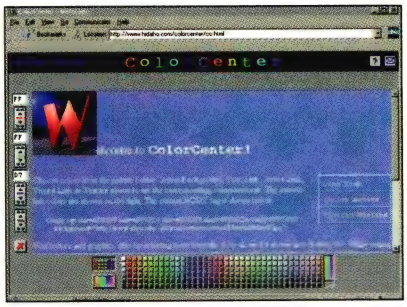
You can specify colours for text, links and the page background in one of two ways as a named colour or by reference to the colour's RGB value. The simplest, yet most limited, is to use one of the 16 colours for which browser recognisable names exist. These colours originated as the standard 16 colours supported with the Windows VGA palette. These colours and their corresponding RGB values are:

Black	"#000000"
Green	"#008000"
Silver	"#C0C0C0"
Lime	"#00FF00"
Grey	"#808080"
Olive	"#808000"
White	"#FFFFFF"
Yellow	"#FFFF00"
Maroon	"#800000"
Navy	"#000080"
Red	"#FF0000"
Blue	"#0000FF"
Purple	"#800080"
Teal	"#008080"
Fuchsia	"#FF00FF"
Aqua	"#00FFFF"

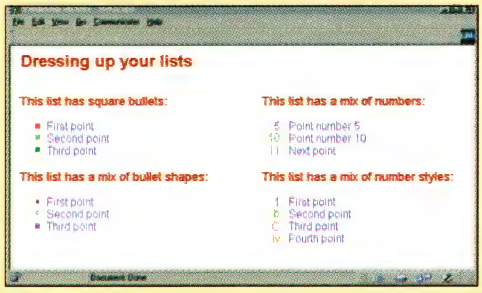
The second way of using colours is to use a number to represent the proportion of red, green and blue in the colour. The most commonly used representation for colours as RGB values is to use a hexadecimal number in the format #rrggbb where rr represents the value of red in the colour (range 0-255 decimal, or 00-FF hexadecimal), gg the value of green and bb the value of blue.

For example, COLOR="#0000FF" will set the element to blue.

There's a colour chart at Lynda's Homegurrlpage at http://www.lynda.com/hex.html which shows the decimal and hexadecimal numbers of the 216 browser safe colours (the colours in the palettes used by the popular browsers). You'll also find a neat JavaScript colour selector at http:// www.hidaho.com/colorcenter/intro.html which allows you to try out an unlimited variety of colour combinations on the screen and copy and paste your selection into your HTML document.



Fancy list options — unordered lists



While style sheets offer you a number of ways of improving the way your lists are presented, even without them you can still add variety to your lists. Using <UL>...</UL> gives you an unordered or bullet list. The COMPACT attribute tells the browser to reduce the space between list items and the TYPE attribute allows you to set the bullet type as either disk, circle, or square. For example, this will give you a list with square bullets:

```
<UL COMPACT TYPE=square>
<LI> First point</LI>
<LI> Second point</LI>
<LI> Third point</LI>
</UL>
```

Within an unordered list you can include a TYPE attribute in each list item <LI> to specify the bullet shape for each item individually:

```
<UL>
<LI TYPE = square> First point</LI>
<LI TYPE = circle> Second point</LI>
<LI TYPE = disc> Third point</LI>
</UL>
```

Freeform and tabular text

If you have information to display in a series of columns, such as financial data or tabular information, you have a couple of choices. You can place the information in a table and align it using alignment options for each cell of the table or you can use the preformatted text option.

Preformatted text is useful for presenting text that doesn't fit easily into table format and where you want tight alignment of text. In contrast, it's also a good option for freeform text such as poetry where you may want large spaces left in the text. When a browser encounters multiple spaces it will usually collapse these to a single space and this makes rendering some specialised text effects difficult.

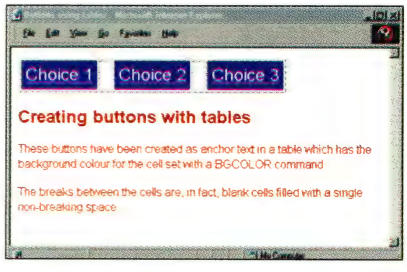
Preformatted text is presented by browsers in a monospace font so that each letter or character takes the same space as every other letter. Courier is a typical monospace font. Using a monospace font makes aligning columns of text easy and, as spaces in preformatted text are not collapsed, multiple spaces will show in the resulting display. You can use tabs in preformatted text but this is not encouraged; spaces are the better option.

The preformatted text tag pair <PRE>...</PRE> has an optional, but not widely supported, WIDTH attribute which allows you to specify the length of your line. Ideally this should allow the browser to select a suitably-sized font to make the text fit on the line. In practice, however, don't expect text wider than 80 characters to be displayed correctly.

Type the text to appear inside the <PRE>...</PRE> tags the way you want it to look. Press the Enter key (don't use <P>) to start a new line and use spaces rather than tabs to align your text. Because HTML tags can appear in preformatted text you can't insert special characters such as &, <, > etc in your text without first converting them to their correct entities.

Creating buttons with tables

You can create a simple clickable button effect for navigating your site using tables. The download time for the page will be quick if you use this effect because the buttons are simply text in a table cell with the background colour of the cell set using the BGCOLOR command.



The buttons are kept from running into each other by the inclusion of a blank cell which contains a single non-breaking space. The text in each cell has also been padded using the CELLPADDING attribute to keep it away from the border of the table. You can remove the border from the table, if you wish, by setting the BORDER attribute to zero inside the TABLE tag.

This source creates a simple three-button display. Add more 'buttons' if you wish and replace the text and the URLs with your own text and links:

```
<TABLE border = 1 CELLPADDING=6>
<TR>
<TD BGCOLOR=BLUE><FONT SIZE
= 5>
<A HREF="choice1.htm">Choice
1</A></TD>
<TD> </TD>
<TD BGCOLOR=BLUE><FONT SIZE
= 5>
<A HREF="choice2.htm">Choice
2</A></TD>
<TD> </TD>
<TD BGCOLOR=BLUE><FONT SIZE
= 5>
<A HREF="choice3.htm">Choice
3</A></TD>
</TR>
</TABLE>
```

For an even smarter touch, change the background colour of the cell which relates to the current page to another colour to give the effect of the button being 'pushed'.

Fancy list options — ordered lists

When you use an ordered list <OL>...</OL> you'll get a series of numbered points. The TYPE attribute allows you to choose between a number of styles of numbering and you can apply this to the <OL> tag itself or to individual <LI> tags. The <OL> tag has an optional START tag which lets you specify a number to start the list and the <LI> tag has a VALUE attribute which allows you to change the list numbering in the middle of the list. Numbering continues from this

reset value onwards so only one VALUE attribute needs to be set.

```
<OL START="5">
<LI>This will be item 5</LI>
<LI VALUE="10"> This will be item 10</LI>
<LI >This will be item 11 </LI>
</OL>
```

The allowable 'types' for ordered lists are 1, a, A, i and I:

1	Arabic numbers, (default) displays as 1, 2, 3, 4 etc.
a	Lowercase alphanumeric, displays as a, b, c, d etc.
A	Uppercase alphanumeric, uppercase displays as A, B, C, D etc.
i	Lowercase roman numbers, displays as i, ii, iii, iv etc.
I	Uppercase roman numbers, displays as I, II, III, IV etc.

You can place a <FONT>...</FONT> tag around an <LI> to change the colour of the list item's bullet or number.

Typographical characters

There are a number of special characters in HTML that are taken by the browser to mean something other than their usual meaning. For example, the characters < and > mark an HTML tag and so if you need the character < in your text, merely typing it won't display it. Instead, you need to use a special escape sequence. Some of the more common sequences are:

<	&lt
>	&gt
&	&amp
"	&quot

To complete an escape sequence, use a space or a semi-colon after it. A space will add a space between the special character and the following text, whereas a semi-colon won't.

Some other handy escape sequences are the non-breaking space ( ), which provides a space between words that doesn't allow the words to be split across a line break, and en dash (&endash or &#150) and em dash (&emdash or &#151) which give dashes of differing lengths.

Handy Web references for escape sequences include:

- http://www.willcam.com/cmat/html/other.html#Escape Sequences
- http://www.w3.org/MarkUp/html-spec/html-spec_9.html

Useful characters

Here are some special characters that you can include in your HTML documents. For each, their decimal character code and mnemonic name are listed:

degree °	&#176 &deg
superscript two ²	&#178 &sup2
paragraph sign ¶	&#182 &para
one-fourth ¼	&#188 &frac14
one-half ½	&#189 &frac12
three-fourths ¾	&#190 &frac34
cent sign ¢	&#162 &cent
multiply sign ×	&#215 &times
division sign ÷	&#247 &divide
ellipsis …	&#133 &hellip

Remember to add a space or a semi-colon after each escape sequence. Although mnemonics are easier to remember and to use, you may find that your browser doesn't support the mnemonic for some characters. In this case try using its decimal character code instead.

To get a subscript 2 for describing chemical elements such as H2O, use:

```
<SUB>2</SUB>
```

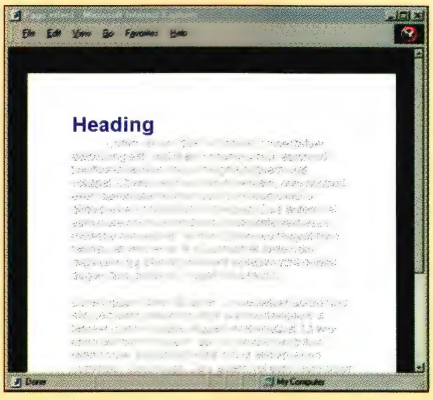
Handy Web references for special characters include:

- Accented characters: http://www.december.com/html/spec/latin1.html
- ISO 8859-1 Latin-1 characters list: http://www.utoronto.ca/webdocs/HTMLdocs/NewHTML/iso_table.html

Opening another browser window

Whenever you add a link on your site to take a user to another site you potentially 'lose' your viewer. You can avoid them leaving your site entirely if, rather than replacing your page with the

Creating a page within a window



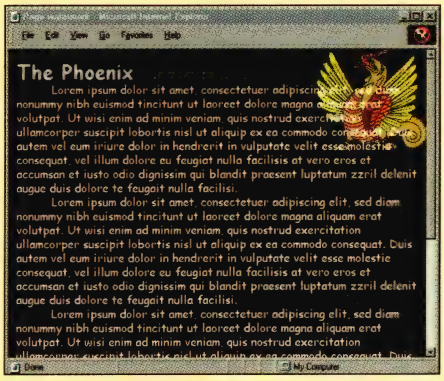
A quick and easy way of creating an interesting design effect is to create a page, reminiscent of a sheet of paper, within the browser window. You can do this by setting the background of the document to one colour using the BGCOLOR attribute of the BODY tag. Then add a table filled with another colour to take up most of the width of the browser window.

Setting the table width to 100% will usually mean that the table is slightly smaller than the browser window, however, to be sure the table is smaller you can centre it and reduce its width to 95%. Using percentages rather than a fixed number of pixels means that the 'paper' will always be scaled in size to fit within the browser window. Using the CELLPADDING attribute allows you to ensure that the text on the page stays well inside the border of the 'paper' giving the effect of paper margins.

Use the BGCOLOR attribute of the table to make the background of the table another colour, such as white. This sample HTML will create this effect:

```
<BODY BGCOLOR = black>
<CENTER><P> 
<TABLE WIDTH=95% HEIGHT=100%
CELLPADDING = 50 BGCOLOR =
WHITE>
<TR><TD>Page text goes in here...
</TD></TR>
</TABLE>
</CENTER>
</BODY>
```

Page watermark with a style sheet



Using a style sheet you can create a unique effect with a small, simple graphic that appears on your page and moves with it. This is a good technique to use for a company logo, a piece of fancy text saved as a graphic image or a piece of line art. The effect is created with a style sheet and uses the BODY selector. These sample rules both place the graphic sb33.gif in the top-right corner of the screen:

```
BODY {background-image: URL(sb33.gif);
background-repeat: no-repeat;
background-color: black;
background-position: top right;
background-attachment: fixed}

BODY {background : URL(sb33.gif) no-
repeat black center center fixed}
```

The only difference between these rules is that the second is a shorthand version of the first. The background property allows you to set the individual background properties such as background-image, background-color, background-position, background-repeat and background-attachment all at once. To use the background property you simply give it values for all the individual background properties that you want to set.

The properties used here are the background-image property, which takes the URL of the image and has the format URL (image_name.gif). You can use GIF or JPG images and the image is placed over the top of the background colour, which is set with the background-color property. The background-repeat property determines if the image will repeat on the page, horizontally (repeat-x), vertically (repeat-y), horizontally and vertically (repeat) or not at all (no-repeat). In this instance only one copy of the image is required so the no-repeat value is used.

The background-attachment property takes one of two values: scroll and fixed. The default value is scroll and sets the image to scroll along with the content. The value fixed means that the image is fixed on the screen and will always appear in the browser window in the set position.

The final property is the background-position property which sets the initial position of the image on the screen. The possible values are top, centre and bottom in the vertical direction and left, centre and right in the horizontal direction. A pair of value words will describe the location of the image on the screen. Absolute and percentage measurements can also be used to position the image; the first measurement specified is the horizontal one and the second the vertical. This source works well in IE4 but the positioning is not supported in Netscape.

linked page from the other site, you open a new browser window for the new page. You can do this by adding the TARGET attribute to your link.

Although the TARGET attribute is most often used with frames, you don't need to be using a frame to use this attribute and both Netscape and Internet Explorer support it. The predefined target name "_blank" instructs the browser to open a new blank window. So, <A HREF="url" TARGET = "_blank">link-text</A> will open a new browser window for the linked page, leaving your page still available in its own browser window.

Simple feedback form

This HTML source creates a simple client side feedback form that e-mails the data from the completed form to you in a long string. The information you receive is easy to edit into a useable format. The form will work on most sites and doesn't need any programming or scripting to create. It's suitable for small sites where you can expect to get up to 10 to 20 completed forms a day.

Before you use this form, put your e-mail address in the ACTION attribute in the FORM tag. This form is embedded in a table to give a neater presentation than you would otherwise be able to achieve. Unfortunately this form doesn't work with IE 3.0, but works fine with IE 3.01 and later.

```
<H2><I>Tell us what you
think</I></H2>
We'd like to make our site better. To do
this we need your help. Please tell
us<BR> what you think about our site.
We're looking forward to hearing from you.
<FORM METHOD=POST
ACTION="mailto:your_name@your.
e-mail.address">
<TABLE WIDTH = 100%><TR><TD
WIDTH = 35% VALIGN = TOP>
Your Name:</TD>
<TD WIDTH = 65% VALIGN =
TOP><INPUT NAME="Name"
TYPE="TEXT" SIZE="46" ><P></TD>
<TR><TD>
E-mail address:</TD>
<TD><INPUT NAME="e-mail"
TYPE="TEXT" SIZE="46" ><P>
<TR><TD VALIGN = TOP>
Tell us what you think about our
site:</TD>
<TD><TEXTAREA NAME="ideas"
ROWS=2 COLS=40></TEXTAREA>
<P>
<TR><TD VALIGN = TOP>
How often have you visited:</TD>
<TD><INPUT NAME = "frequency"
TYPE = "RADIO" VALUE = Never
CHECKED> Never before <BR>
<INPUT NAME = "frequency" TYPE =
"RADIO" VALUE = UpToFiveNo >1-5
times<BR>
<INPUT NAME = "frequency" TYPE =
"RADIO" VALUE = SixToTen >6-10
times<BR>
<INPUT NAME = "frequency" TYPE =
"RADIO" VALUE = More >More than
10 times<P>
</TD></TR>
<TR><TD> </TD><TD><INPUT
TYPE = "SUBMIT" VALUE = "Mail the
Form">
<INPUT TYPE = "RESET" VALUE =
"Clear and Start again">
</TD></TR></TABLE>
</FORM>
```

Web graphics tips

Get your Web graphics into shape with these hints from Helen Bradley.

What you need	User Level
Paint Shop Pro Internet Web publishing access	Easy — Expert

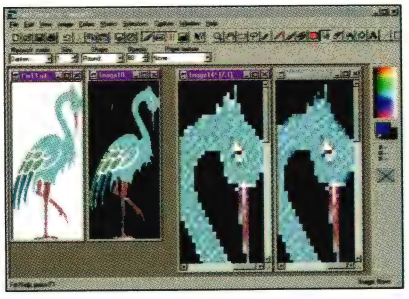
Don't lose out on compression

Every time you save an image as a JPG file, you'll lose some of its definition. The JPG file format compresses the data in your image and, even using low compression, high image quality as your settings you'll lose something. If you're working on a graphic you'll lose more of your image's definition every time you save it as a JPG format.

To avoid this happening don't work on a graphic in a JPG format. Instead use a bitmap format such as BMP to save your file. Wait until you're finished and ready to upload it to the Net before you save it as a JPG. Keep the BMP format file in case you need to make changes later and then you'll always work on the best quality image. Give both files the same name (but different extensions) so you'll have little trouble identifying which BMP file goes with which JPG file.

Retouching a graphic

Antialiasing is a useful technique to use when you're working on Web graphics. Because the images are rendered at a small number of dots per inch on the screen, without antialiasing you'll get jagged edges on even the simplest line drawing. To eliminate these, antialiasing results in the edges of a line being filled with a pattern of coloured pixels so that the impression is that the line is quite smooth. However, the downside is that if the graphic is placed on a dark background, the antialiasing can give the unwanted impression that there's a halo around the graphic.



To eliminate the problem, open the graphic in a paint program and fill the background with the same colour you're using as the background colour of your page. If you're using a textured background choose a colour from the texture (experiment to find the one that gives the best results). Increase the colour depth of your image to 16.7 million colours using Colors, Increase Color Depth, 16 Million Colors (24-bit). Using the Retouch tool drag your mouse over the 'halo' area to smooth out the difference in colours. The settings you'll need depends on the graphic itself. For the bird in the figure we set the Retouch mode to Darken, the Size to 2 pixels, the Shape to Round, the Opacity to 80% and Paper Texture to None. You may need to experiment with these settings to get the best result. To finish, return the colour depth to 256 colours using Colours, Decrease Color Depth, 256 Colors (8-bit) and then save the file, setting the transparent colour to the background colour.

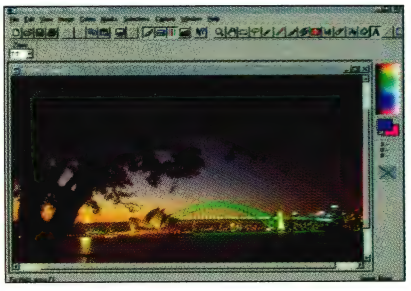
Before you begin

If you're creating an image for a Web page, where possible, create it on a document which has been set with a background colour the same as the one you'll use for your page. If you're using a textured background then use a colour representative of the background as the image's background colour. This way, if you resample your image to reduce its size, or if the effects you create use antialiasing, then the graphic will be created to 'merge' into the background

Create your image using 16.7 million colours; it sounds a lot but you'll find that some of the special effects your paint package is capable of won't be available to you if you aren't using the maxiumum number of colours. You can always reduce the number of colours in an image before you save it. In Paint Shop Pro, select Colors, Decrease Color Depth or Increase Color Depth to alter the number of colours in an image. If you're editing a graphic from a clip art collection, you can increase the colours, edit the graphic and then reduce them to make the most of what your paint program has to offer.

Textured text

You can easily create a different text effect in Paint Shop Pro 4.0 by putting an image or texture under your text.



Step 1: Open the graphic you'll use — it will need to be large enough for you to place the text over it. If it isn't you

Fonts & colours to try

The Sponge font file and Netscape's palette zip file are available on this month's CD-ROM. See page 3 for details.

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❑ 1. Managing Director, General Manager
❑ 2. Data Comms/Network Manager
❑ 3. LAN Manager
❑ 4. Microcomputer Manager
❑ 5. MIS Manager
❑ 6. EDP/DP Manager
❑ 7. Project Manager/Group Leader
❑ 8. Engineer/Architect
❑ 9. Accountant/Finance Officer
❑ 10. Systems/Programme Analyst
❑ 11. Consultant/Advisor
❑ 12. Other Computer Department Employee
❑ 13. Educator
❑ 14. Sales Representative
❑ 15. Office Administrator
❑ 16. Student
❑ 17. Other Professional
❑ 18. Other (please specify)

_____

2. What is your organisation's primary business activity?

❑ 1. Government, Utilities
❑ 2. Agriculture, Mining, Oil
❑ 3. Transportation
❑ 4. Construction
❑ 5. Computer Manufacturer/Distributor
❑ 6. Communications
❑ 7. Computer Retailer/Reseller/Consultant
❑ 8. Finance, Banking, Insurance
❑ 9. Research & Development
❑ 10. Engineering, Architecture
❑ 11. Manufacturing (non-computer)
❑ 12. Retail (non-computer)
❑ 13. Publishing, Media
❑ 14. Health
❑ 15. Legal
❑ 16. Armed Forces
❑ 17. Other (please specify)

_____

3. How much IT equipment do you anticipate being involved with the purchase of during the next 12 months at work? (Please include all hardware, software, peripherals, connectivity equipment and consumables).

❑ 1. None
❑ 2. $1 - $999
❑ 3. $1000 - $4999
❑ 4. $5000 - $9999
❑ 5. $10,000 - $49,999
❑ 6. $50,000 - $99,999
❑ 7. $100,000 - $249,999
❑ 8. $250,000 - $499,999
❑ 9. $500,000 - $999,999
❑ 10. $1,000,000+

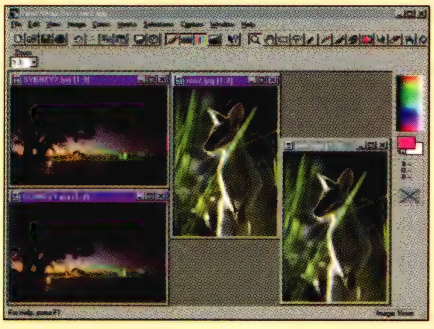
4. How many microcomputers are you directly responsible for at work?

❑ 1. 1 - 9
❑ 2. 10 - 19
❑ 3. 20 - 49
❑ 4. 50 - 99
❑ 5. 100 - 499
❑ 6. 500 - 999
❑ 7. 1000 - 1999
❑ 8. 2000 - 4999
❑ 9. 5000+

98PUJA

❑ *Check here if you do not wish to receive information from third parties*

Blurring file sizes



Large file sizes increase download times on Web pages. To reduce the size of a photograph, one option is to reduce the physical dimensions of the graphic by cropping the unimportant bits. However, this isn't an option if you don't want to lose large chunks of your picture. You can make significant reductions in file size (up to 30%) with minimal trade-off in quality by leaving the less important parts of the graphic there but blurring them.

To create this effect open your photograph in Paint Shop Pro and using the selection tool and a ellipse or circle shape, select the most important area of your graphic; this will remain as it is. Select Selections, Invert to select the remainder of your graphic and select Masks, New, From Selection. Use Paint Shop Pro's filters to blur this area by selecting Image, Normal Filters, Blur More. Repeat this over and over until you get a good blurred effect. To finish, choose Selections, None and save your file as a JPG file. This effect reduced the picture of Sydney (768 by 512) from 46Kb to 30Kb and the Wallaby (512 by 768) from 59Kb to 43Kb.

may be able to increase the image using Image, Enlarge Canvas and copy and paste part of the image to make a version large enough to use.

Step 2: Create a new document using File, New and make it large enough for your text, 600 by 200, 16.7 million colours is a good start. Set the background colour to white (or any other colour) and the foreground colour to black (or the background colour of your Web page). Using the text tool and a large chunky font (we used the custom created font sponge.ttf at 120pt), set the Antialias and Floating checkboxes, click OK and type your text. Deselect the text by selecting the Selection tool and clicking on some other part of your drawing (or use Selections, None). Swap the background and foreground colours by selecting the small two-headed arrow to the left of the foreground and background colour boxes on the Color Palette. Copy the entire image using Edit, Copy and switch windows to the image you'll use.

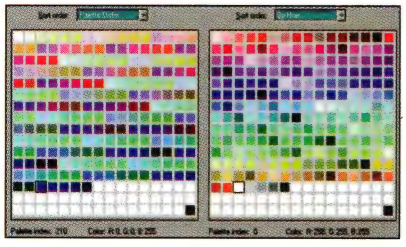


Step 3: Select Edit, Paste, As Transparent Selection and move the text until it appears in the position you want over the background image. When you have the positioning correct, use Selections, None to deselect the area. Now select the portion of the image that you want to use, crop it using Edit, Crop and save it.



The browser safe palette

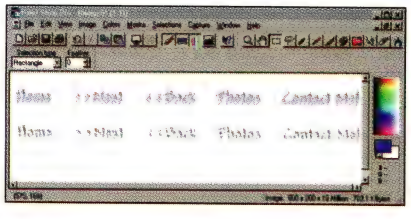
There are 216 'browser safe' colours which are rendered by browsers without needing to be dithered. Dithering is the process of representing a colour by a combination of other colours. For example, if you alternate dots of blue and dots of yellow and stand away from it, it will look green. The browser tries to do this when it encounters a colour that is not in its palette. In photographs this won't usually cause problems but in line drawings the effects can be quite unsatisfactory. You can stop this happening by creating any Web graphics such as line art, logos and buttons using a palette of the 216 colours.



You can create this palette yourself and save it as a palette file. Each colour in the palette is made up of a combination of 00, 33, 66, 99, CC, FF hexadecimal (0, 51, 102, 153, 204, 255 decimal). Alternately you can download the palette from the Internet. The palette is available from Jeff's Paint Shop Pro tips site at http://www.geocities.com/~jburton/tip6.html. Unzip and then open this file in Paint Shop Pro using Colours, Load Palette. If you have an existing graphic you can alter its palette to the browser safe one by opening the graphic and then loading the Netscape palette.

Text as a button

Using a piece of shadowed text anyone can create neat text buttons for a Web site. This is particularly useful if you can't find suitable buttons for your links or if you're graphically challenged! Open a new file in Paint Shop



Pro and set the colours to 16.7 million. Before you begin choose your font carefully. This effect works well with an arty, slender font so one that resembles an architect's handwriting or a technical or geometric font will work well.

Select a foreground colour for your text (we used dark blue) and set the background colour of the image to that of your Web page or a colour from the texture you'll be using. Using the text tool, select the font and size (we used Mead Bold 22pt), check the Antialias and Floating checkboxes and type your text. With the text still selected, select Image, Special Effects, Add Drop Shadow. Set the Opacity to 200, the Blur to 5, the Colour to Black, the Vertical to -3, the Horizontal to 3 and click OK. An additional option is to add colour by selecting Selections, Modify, Feather, set the Feather to 6 and click OK. With the text still selected, press the Delete key to remove it. You may want to experiment with different colour combinations, for example, setting both the foreground and background colours in the Color palette to white works well on dark backgrounds.

If you create the buttons in a single graphic you can use it as a client side image map. Alternately create a separate graphic file for each button, use the selection tool and Image, Crop to remove any extra background before saving it. If you plan saving the graphic as a GIF file, reduce the number of colours using Colors, Decrease Color Depth, 256 colours (8-bit) before saving it. The figure shows the text effect created with feathering and without.

Note

These effects can all be created using Paint Shop Pro v4.

You can download the program from www.jasc.com or find it on this month's CD-ROM. See page 3 for details.

Visual Basic tips

Helen Bradley provides tips for all versions of Visual Basic.



Quick code indent

To quickly indent blocks of code in the Visual Basic code window, highlight all the lines of code to indent and press the Tab key. Each press of the Tab key will increase the size of the indent. To remove an indent, highlight the lines and use Shift+Tab instead.

Find functions and procedures quickly

Often when you're working on a piece of code you'll want to see the code associated with a function or procedure call. You can move quickly to the code by placing the cursor in the call statement under the function or procedure name and pressing Shift+F2.

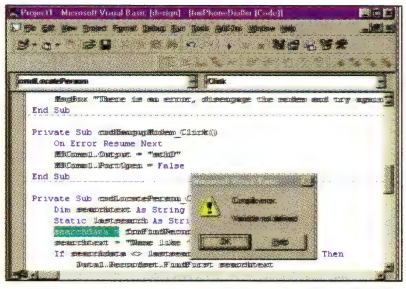
Retaining a variable's value

In Visual Basic all procedure level variables lose their values when the procedure has finished executing. Most of the time this is the result that you want, however, sometimes you'll want the variable to retain its value so that this value will be available next time the procedure is executed. This can be done if you use the *static* keyword when you declare your variable. For example, Static firstCounter as Integer will declare a static variable that will keep its value as long as the module code is running.

In addition to declaring individual variables as static you can force all the variables within a procedure or function to retain their values if you use the static keyword in the declaration statement, for example, Static Function ConvertKilometres(score as long) as long or Static Sub GetUserDetails().

Declaring variables

It's good practice to declare variables before you use them and to do so at the beginning of a procedure or module. One handy way of ensuring you always do this is to get Visual Basic to keep track of your variables for you and to report an error at compile time if you



attempt to use an undeclared variable. This helps you eliminate typographical errors that are easy to make and difficult to locate, such as typing icnIntRate instead of incIntRate. To set Visual Basic so that you must declare variables you can include the Option Explicit statement at the top of your modules or select Tools, Options, Editor (or the Environment tab if you're using version 4.0) and select the Require Variable Declaration checkbox.

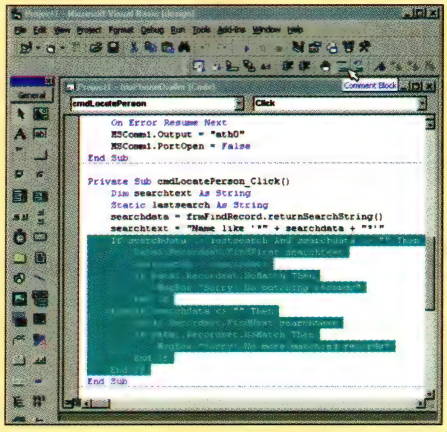
Using + and &

In Visual Basic the + operator performs both addition and concatenation (joining of two strings). If you use the + operator for concatenation there's the potential to create code that's difficult to read and debug. So, reserve the + operator for use in addition and use the ampersand (&) to concatenate strings.

Commenting out code

When you're debugging your Visual Basic code, you'll often want to remove one or more lines so that they don't execute. If it's code that you'll reinstate later then use the comment character (') at the beginning of each line of code to turn it into a comment. When your program runs, Visual Basic ignores any text after the comment character, even if that text is program code. To reinstate a line of code, remove the comment character.

Visual Basic 5 automates this process by providing the Comment Block and Uncomment Block icons on the Edit toolbar. To view the toolbar select View, Toolbars and select Edit. You can then highlight multiple lines of code and add or remove comment characters using the Comment Block and Uncomment Block icons.



Centring a form on the screen

Visual Basic 5 allows you to easily specify a form's position on the screen using the form's StartUpPosition property. The property is available in the form's properties list or by right-clicking on the form in the Form Layout window. The options allow you to manually position the form, centre it within the form it belongs to, centre it on the screen, or position it in the upper-left corner of the screen (the Windows default).

If you're using an earlier version of Visual Basic, this code included in the Form_Load event will centre the form on the screen at runtime:

```
left = (screen.width - width) /2
top = (screen.height - height)/2
```

Check a file exists

There are a number of situations when you're programming in Visual Basic that you will want to know if a file exists before you proceed. For example, if you attempt to open a file that doesn't exist or isn't located where the program expects it to be, your user will receive an error message. If you open a file for sequential output and it already exists, then you'll overwrite it, whether or not you intended to. To guard against these problems you should always test to see if a file exists before you open it. This code allows you to do this:

```
If (Dir("C:\WINDOWS\MYFILE.CAL")) =
"MYFILE.CAL" Then
    'code to be executed if file found
Else
    'code to be executed if file not found
End If
```

The DIR function takes as its argument the file name and path (in this case C:\WINDOWS\MYFILE.CAL) and looks for the file. If it finds it then the function returns the filename alone, without the path. If the file doesn't exist, its name is not returned and an empty string is returned instead.

Setting multiple properties

When you're setting a number of properties for the one control individually, the code can become repetitive and untidy. There's a neater way of doing this using WITH. These two code segments both achieve the same results but the second is neater and easier to follow than the first:

```
cmdQuit.Cancel = True
cmdQuit.Caption = "&Quit"
cmdQuit.Height = 450
cmdQuit.Width = 1200

With cmdQuit
        .Cancel = True
        .Caption = "&Quit"
        .Height = 450
        .Width = 1200
End With
```

Testing for Yes (or No)

When you test for Yes or No in your programs you need to take into account that your user may use upper- or lowercase letters. If you offer them an input box they may type y, Y, Yes, yes, yES. In fact, there are a number of possibilities. You can easily check their answer by using this code:

```
userReply = InputBox("Do you want to
continue?")
If (Asc(userReply) = 121) Or
(Asc(userReply) = 89) Then
    'code to be executed if user reply
is yes
Else
    'code to be executed if user reply
is no
End If
```

This code tests for 'Yes' and treats anything that is not 'Yes' as being 'No'. If you prefer to test for 'No', change the ASCII codes from 121 & 89 to 110 & 78. The ASC function returns the ASCII character code corresponding to the first letter in the string (here, the user's reply). The remaining letters that the user types are ignored. The ASCII code for Y is 89 and for y is 121.

Whenever you're about to do something destructive, such as deleting a file, or making a permanent alteration, and you ask your user for a Yes/No answer, always make sure that if the user presses a wrong key (one that is not Y or N) that they won't take the destructive path. For example, if you're asking the user if they want to delete a file, test the 'yes' answer because any reply which is not 'yes' will be treated as a 'No' answer and the file won't be deleted. If you were to test for 'No' in these circumstances and if your user hits a wrong key, their file will be deleted.

Browsing your own projects

Apart from giving you handy information which you can paste into your application relating to classes, properties and methods available from object libraries, the Object Browser can also tell you about your own projects. Open the Object

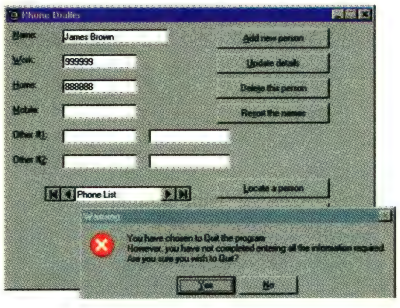
Browser using View, Object Browser or press F2. In the Libraries/Projects list box select your project name. In the Classes/Modules list box are all the modules from your project and in the Methods/Properties list box are listed the procedures, properties, and methods for each of the project modules.

You can display the code for any procedure in the Methods/Properties list by double-clicking on the procedure name. To return to the Object Browser window press F2.

You can make the Object Browser window even more useful by adding comments to your procedures. Highlight any procedure name and select Options and you can include additional brief text which will appear on the Object Browser screen whenever you select that item.

Using the vbCrLf constant

You can create prompts in message and input boxes that are up to 1024 characters in length. However, the text you use for your prompt will be shown as one long string unless you break it up into individual 'paragraphs' and by telling Visual Basic where you want a new line to begin.



The easiest way to create a new line is to use the VB constant vbCrLf. The constant represents a carriage return/linefeed character, which is a concept that evolved from the days of the typewriter when creating a new line for typing involved returning the typewriter carriage to the start position (carriage return) and winding the platen to move up a line (linefeed).

This message is broken up into sentences and joined together with vbCrLf characters using the concatenation operator (&):

message = "You have chosen to Quit the program" & vbCrLf & "However, you have not completed entering all the information required." & vbCrLf & "Are you sure you wish to Quit?"
reply = MsgBox(message, vbYesNo + vbCritical, "Warning")

Dividing operators

There are two particularly handy division operators which you can use when you're working with numbers. The first is MOD, which returns the modulus or the remainder of a division. So 12 mod 5 is 2 (the remainder when 12 is divided by five is two). This code, placed inside an event procedure, creates a static variable (LightsIndex) that will retain its value on subsequent calls to the procedure. LightsIndex will contain a value of 1 on the first call to the procedure, 2 on the second, 0 on the third and then 1 on the fourth and so on:

```
Static LightsIndex As Integer
LightsIndex = (LightsIndex + 1) Mod 3
```

The second operator is integer division (\) which you should be careful not to confuse with the forward slash (/) of the division operator. Integer division discards the remainder and returns the integer result of a division. So 17 \ 5 is 3 (17 can be divided by five 3 times leaving a remainder of two, integer division discards the remainder leaving the 'whole number' 3).

Quick and easy checking

Often when you're writing code you'll want to test it and to do this you'll get the program to print the value of variables so you can see what is happening. While you can do this using message boxes, the solution is cumbersome as the program stops while the message box is on the screen and you have to click it to continue. An easier way of seeing what is going on and not interrupting program execution is to print to the debug window. This code, for example, prints the contents of the variable intRate in the debug window:

```
debug.print intRate
```

You can view the debug window as your program is running by selecting View, Immediate Window and placing it in a suitable location on the screen. The Window is scrollable and the contents remain after the program has terminated. ❑

Common dialogue properties

When you use a common dialogue you can save coding by setting certain properties at design time. Add the common dialogue control to your form and then right-click on it and select Properties. From here you can set the default properties for each of the five dialogues — Open/Save As, Print, Font, Color and Help.



This saves having to code the initial options for the dialogues in your program.

While you can place one common dialogue control on a form for each dialogue box you'll use, you don't have to. You can use just one common dialogue and, in your code, set it to appear as the dialogue you want at the time you invoke it. For example, if you have a single common dialogue on a form (CommonDialog1), then you can display different dialogue boxes on different events, such as the pressing of each of these command buttons:

```
Private Sub cmdPrint_Click()
        CommonDialog1.ShowPrinter
End Sub

Private Sub cmdSaveFile_Click()
        CommonDialog1.ShowOpen
End Sub
```

Windows 95 tips

What you need	User Level
Windows 95	Easy — Expert

Whether you've just started using Windows 95 or are an experienced user, Jan Wikström has some hot tips for you.

Beginners

It's no drag

If you're using the mouse to drag an object from one place to another, only to realise that you don't want to make that move after all, don't worry. Continue to hold down the mouse button and press Esc to cancel the move/copy operation, then release the mouse button.

A pattern of your own

You want to display a pattern on the desktop, but you don't like any of the choices? Make your own! If you have a standard VGA screen and are showing a wallpaper (or any screen and you have a tiled wallpaper), forget about patterns — you can't see them, anyway.

Method: open the Desktop Properties screen, either through the Control Panel or by right-clicking on the desktop, select Properties, Background and pick the pattern that comes closest to what you want. Click on Edit Pattern; this opens the Pattern Editor, which has the tools to make your changes. Click on any square of the pattern to toggle between black and the desktop background colour. When you like the result in the Sample window, type a new name for the pattern and click on Add. Click on Done to exit the Pattern Editor.

Now click on OK to close the Display Properties dialogue box and see the result. Your new pattern will also be shown in the Pattern list.

Drag to taste

The Explorer window defaults to a standard look: the right pane is the same size as the left and there are bars of information and tools at the top and bottom of the window. This is easy to change.

Just hold your mouse pointer over the divider and when it changes to a double-pointed arrow, click and drag in either direction. For example, you may wish to make the left side bigger if you've opened a folder within a folder within a folder (the more branches you open, the wider the tree gets). More commonly, you'll want more space for file details; you can always scroll the tree window.

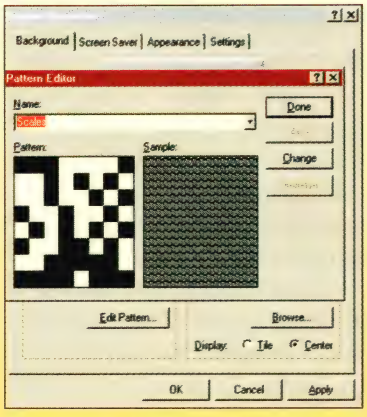
To get more space on the top or bottom of your Explorer window, remove the Toolbar and/or Status Bar. Pull down the View menu and uncheck one or both of these options.

Tiny starters

If you're using Internet Explorer 4.0 and have chosen to apply the updated desktop, you'll see some nifty little program starting icons in something called the Quick Launch tray near the left end of the taskbar. You can add your own icons to it in the simplest way: just open an Explorer window that shows the program you want and left-drag it into the Quick Launch tray.

As usual, this area is actually a special folder named C:\WINDOWS\APPLICATION DATA\MICROSOFT\INTERNET EXPLORER\QUICK LAUNCH, so you can also drag shortcuts into this folder — but it's quicker to do it on the taskbar. If little scroll arrows appear, the Quick Launch tray is too small; grab its end bar and drag.

A pattern of your own



The image in the editing window seems to look nothing like the finished pattern. The secret is that it consists of four quarter tiles, meeting in the centre.

Recycle that bin!

The default Windows 95 installation makes allowances for hasty deleting: if you change your mind, you can get the file/s back from the Recycle Bin — either double-click its icon or right-click it and select Open or Explore. As you become more confident, you may want to take the safety railing off, so to speak. To do this, right-click the bin icon and select Properties. In the dialogue box that opens, you can choose immediate deletion.

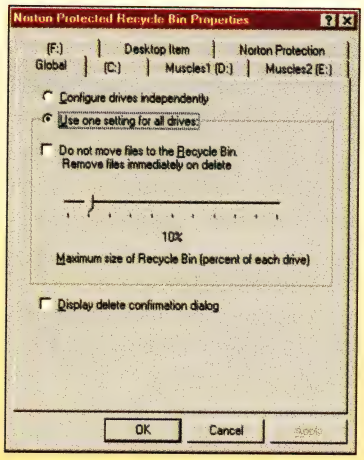
A good way to keep safe but speed up deletion when you are quite sure you want to get rid of a particular file is to hold down Shift when you press Del. To make this work, you need to open the Properties again and uncheck the 'Display Delete Confirmation Box' option on the Global tab. You'll also see when you have this dialogue box open that you can specify what proportion of each hard disk is used for the temporary storage of the Recycle Bin; it doesn't have to take up a huge amount of space.

If you're running low on space, even the small percentage set aside for the Bin doesn't have to be a problem: just right-click on the icon and select 'Empty Recycle Bin' for temporary relief.

At the dump

If you need to take a snapshot of the screen — maybe to explain a problem to me for the Answers column — press

Recycle that bin!



The Recycle Bin has controls for how it behaves and how much space it uses. It provides a way to get back deleted files, but only the ones you have deleted by means of the Explorer. If you want to protect files that are deleted by other programs — by hand or automatically — you need to add to it. This is what the Norton Protection tab in the picture is about.

PrintScrn for the whole screen and Alt+PrintScrn for the active window. This puts a bitmap into the Clipboard buffer. Now open a bitmap editor (Paintbrush or something better), select Paste and save the captured image as a BMP, TIF or GIF file after any editing. GIF is a compressed file format and therefore better to send as an e-mail attachment.

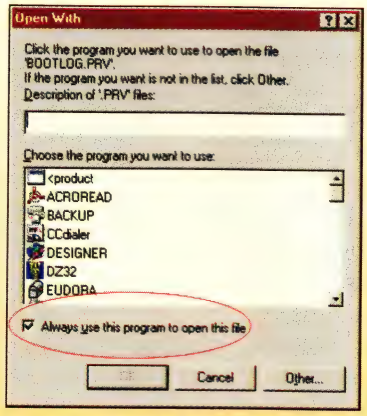
By the way, if you send any file as an e-mail attachment, it's important to let it keep its original file extension; that's so the receiving e-mail package can open it with the right viewer.

Font fiddling

Like so many things in Windows, fonts can be a hassle because it's so easy to install them and there's such a lot available. I have seen many an installation with 200 to 300 fonts installed — so when you come to actually use them, it takes forever to browse through the word processor's list box for fonts. Restraint is the key, also when it comes to graphic design as such. Too many fonts in one item look confusing and messy; you should have one font for ordinary headlines, one for body text and maybe one for display headlines.

That's the bad news; the good news is that you can use a different set of fonts for each kind of publication, such as a curly one for greeting cards, a strict and clean one for a newsletter, several striking ones for ads and so on. To manage this, so that only the set you're interested in shows in the word processor list box, you can use a font manager program, such as Bitstream Font Navigator.

The check that bounces



Make sure you don't get stuck with a permanent association you don't want!

The check that bounces

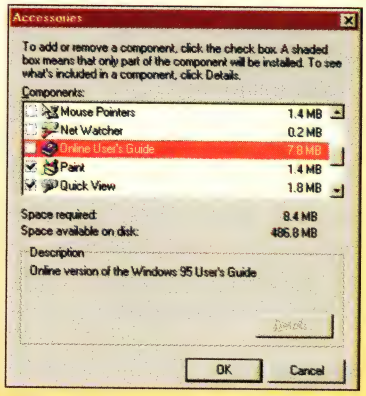
When you right-click on a file to load it into an application, and there is no association for it, a dialogue box pops up that offers you a choice of applications to run and load the file. Fine, but watch it — there's a checkbox at the bottom-left that creates a permanent association between that file type and the application you select. That's a great way to clutter up your system with pointless and maybe wrong associations, so make sure that box is unchecked before you go ahead. Once you have determined that the application is right for the file type (such as, say, Notepad for INI files) you can use the checkbox as the simplest way to create an association that you want.

Accomplished

Bite the helping hand

If you have extracted all the nourishment from the Windows 95 help (say, you haven't used it for six months), you may want to recover over 7Mb of hard drive

Bite the helping hand



The Online Users' Guide is easily removable.

space by deleting the Online User's Guide. Select the Windows Setup tab in Control Panel, Add/Remove Programs, select Accessories then click on Details. Remove the tick from the Online User's Guide and click OK. If you find later that you shouldn't have, it's easy to reverse the operation.

Somewhat secret

Password protection of files and folders is not a feature of Windows 95. However, there's a trick that does provide a bit of protection, even if it won't stop an expert who knows the name of the hidden file or folder. It's simple: right-click on the item, select Properties and check the Hidden box. Then open any folder and select View, Folder Options, View and click on 'Do Not Show Hidden Files'. When you need to access the item yourself, just go View, Folder Options, View and click on 'Show All Files'.

This nifty trick also works on Start menu options and desktop icons but not on the Quick Launch toolbar that comes with Internet Explorer 4.0.

To hide a Start menu option, right-click on the Start button, select Open and navigate in the usual way to the item you want to hide.

There's a small bug if you hide a desktop icon: when you bring it back, it's not in its normal place, so you have to search for it.

Flag down the bus

The latest PCs have a new bus for connecting peripherals, called Universal

OSR2 revisited

There have been a spate of queries about difficulties with installing OSR2, also known as Windows 95b. This is mainly because the CD that comes with a new PC these days is set up to install on a 'virgin' system only and won't play unless it has an empty hard disk to itself. In my OSR2 article in the July issue, there was a box about ways to sidestep this. Here it is:

Up my grade

I have extracted from the Internet a simple variant on upgrading to OSR2 for new chums and a modified comprehensive one for advanced users. Is this operation legal? Well, according to ZDnet (Ziff-Davis, a US publishing group), Microsoft doesn't mind as long as the copy being installed is obtained legitimately together with some hardware.

With both these methods, all your installed software should work and your system should look and work as before, except for the added features. Just one thing: if your current system is a normal dual-boot one, it will no longer be after the upgrade. You can get around that with a new installation (see below) but not an upgrade.

The simple way

First, make sure your CD reader works in DOS mode. Another useful preparation is to remove all icons from your Startup folder; create a temporary folder to park them in, or just drag them to the desktop. Now rename the file win.com in the C:\WINDOWS folder. Why rename and not delete? As usual, just in case the installation doesn't come off: you can go back to what you had. If you have a dual-boot system, kiss it goodbye and rename it win.com as well.

Reboot in DOS mode, then put in the OSR2 CD and type X:\SETUP where X is the drive letter for your CD reader. The upgrade of your current version of Win 95 to OSR2 will proceed. Note: when you get to the screen where you choose which directory to install to, the default will not be C:\WINDOWS. Change the install directory to wherever your existing version of Win 95 is.

Be ready with the CD key or certificate number; these will be found on the manual or certificate of authenticity, not on the CD.

The nitty-gritty way

1. Copy the Win95 folder from the CD to your hard drive. You should have 100Mb free.

2. Extract setuppp.inf from precopy2.cab to the Win95 folder on your hard disk. Use extract.exe on the command line, or use the CAB file extraction tool from the PowerToy collection on our CD.

3. Open C:\WINDOWS\INF\LAYOUT.INF in Notepad. Don't get confused by the many blank lines in this file. Use Search, Find to locate the string 'SETUPPP.INF'. You should find setuppp.inf=2,,4550. Change the 2 to an 0, to read setuppp.inf=0,,4550. Save the file. This step prevents Setup from extracting setuppp.inf from the CAB file during installation. Setup will instead use the setuppp.inf file we manually extracted in Step 2 and will modify in Step 4.

4. Open setuppp.inf in Notepad. Search for 'ProductType'. Again, do a search — it's hard to find just by looking. You should find ProductType=9. Change 9 to 1 to read ProductType=1. Save the file.

This step tells Setup to upgrade the previous installation and to not ask for a CD Key or Certificate number. Don't try to put setuppp.inf back into precopy2.cab. The change we made to layout.inf in Step 3 forces Setup to use our modified version of setuppp.inf.

5. Run Setup from Windows 95 off your hard drive. Installation will proceed as an upgrade.

Notes on ProductType=X in setuppp.inf:

- **ProductType=1:** Upgrades without asking for CD KEY (serial number).
- **ProductType=2:** Upgrades and asks for 10-digit CD KEY.
- **ProductType=9:** Non-upgrade version — asks for OEM certificate number.

(Original published by Chip May.)

Booting booting double double

Microsoft seems to hold the view that dual-booting MS-DOS and/or Windows 3.11 is a needless complication and achieves nothing useful, as it has been abolished. For a change, I agree; in theory, there may be important Win 16 programs that fail to run under Windows 95 and can't be replaced by any other, but I've never come across one. As for those few DOS games that won't run in a Windows 95 DOS box, we've had two years now to grow tired of them and switch to something better.

Well, now that I've got that off my chest, I feel much better — so now I can go on with a workaround for those readers who don't agree with me and Microsoft! This procedure was originally published on the Web by Jonathan Benger.

1. Install OSR2 in the normal way, but don't use FAT 32. You must also make sure that you install it on the first physical partition on your hard disk (usually the case).

2. Copy the io.sys, msdos.sys, config.sys and autoexec.bat files from a DOS 6 boot floppy to C:\IO.DOS, C:\MSDOS.DOS, C:\CONFIG.DOS and C:\AUTOEXEC.DOS.

3. Create a small garbage file and name it C:\WINBOOT.SYS.

4. Edit C:\MSDOS.SYS and add the line BootMulti = 1.

If you now reboot with F4 for 'previous operating system', OSR2 will detect the presence of a winboot.sys file; this stops it locking up. There is one glitch:

"Warning: Windows multi-boot may not function correctly. Check for system files in your root directory with conflicting extensions."

It comes up because of the same winboot.sys. If you boot to the GUI you may not see it, but if you boot to DOS mode you will. Advanced users can eliminate this message by using a hex editor to modify io.sys. Change the byte at hex 113F7 from 57 (W) to a 24 ($).

Serial Bus (USB). The USB allows you to control some modems, monitors, scanners and such (and more devices keep coming) by means of an extra daisychain cable between them and your PC. Not all PCs have these new ports enabled in the CMOS settings. Once you have the CMOS set up (read the manual!) Windows 95 can manage the bus.

It's not what you call it

Windows 95 Setup is supposed to optimise the performance of your system. Well, it sort of does, but it misses in a couple of places. When it comes to memory and disk handling, you can speed things up by a simple Control Panel setting. Go to Control Panel, System, Performance, File System and select Network Server for Typical Role of this Machine; this will improve your caching and in particular speed up multitasking.

Dress it up

We have run the well-known description of how to replace the three Windows 95 brag screens twice before, but it keeps surfacing in readers' tips, so we'd better repeat it again.

Pick out three 640 by 480 bitmap files you want to use as the Windows 95 start-up and shut-down screens and squash them down to 320 by 400 in the Stretch/Skew dialogue box of MS Paint. The settings are 50% horizontal, 83% vertical and you can only do one at a time.

Now save the existing C:\LOGO.SYS, C:\WINDOWS\LOGOW.SYS and C:\WINDOWS\LOGOS.SYS under new names — say, OLD instead of SYS. Use Paint to save your new opening screen file as C:\LOGO.SYS, the new "wait while shutting down" file as C:\WINDOWS\LOGOW.SYS and the new "safe to switch off" file as C:\WINDOWS\LOGOS.SYS. Under Save as type, select '256 Color Bitmap' (if it isn't already).

Now reboot; your new screens should appear without further ado.

Don't save your screen

It's a good idea to run the Disk Defragmenter regularly to defragment your hard drive and speed up disk access. Select Start, Programs, Accessories, System Tools, Disk Defragmenter, then select the drive you want to work on and click OK. Just one problem: to let the Defragmenter run without interruptions, you should disable your screen saver beforehand. There's a quick and easy way to do this: click on the Start button after Defragmenter has started and do nothing more. As long as the Start menu is up, the screen saver will not kick in, and defragmenting will continue uninterrupted.

Upgrade trap

Windows 95's installation program adapts itself to the system you have in several ways. One that is not widely known is the fact that it installs different system files on a machine that has 6Mb or less RAM. This means that if you want to get the full benefit of an upgrade past that limit, you need to scrub off W95 and reinstall it.

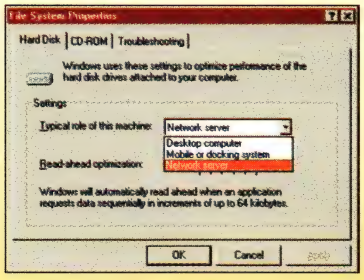
Cleaning up is cheaper

Before you upgrade a full or shaky hard drive, run a disk Defrag to clean up its file structure. Many disk errors can be fixed this way. And, in any case, if you're going to copy all your files onto a new drive, you'll first want to clean up your data so you don't waste time on handling rubbish, and defragmenting is a good final operation after you've done that.

You should anyway run Defrag every couple of months (depending on usage) to reduce system slowdown due to excessively fragmented files.

Compacting a disk and getting rid of rubbish may give you enough space that you can postpone the upgrade for a while. Applying the disk compression utility DriveSpace puts the expensive operation off further still; typically, you almost double the total disk space. Don't worry about reliability; the problems that happened back in the DOS 6.0 days are long solved and were anyway mainly caused by SmartDrive, which is no longer with us (unless you're running Windows 3.x). There is also little or no speed penalty, as the gain in disk reading time due to smaller files outweighs the processing time needed to expand and manage files. In fact, if your disk drive is old, DriveSpace will speed it up noticeably in reading and break even in writing.

It's not what you call it



This Control Panel setting determines the way your memory and disk buffers work. "Server" is the fastest setting for a desktop unit.

Handier shortcuts (NT 4.0)

If you're surfing the Web with your NT 4.0 system and run across a site that you'd like to keep even handier than Favorites/Bookmarks, right-click on the site's URL display in the browser and select Copy from the pop-up menu. Now move the cursor to your desktop and right-click where you'd like the URL to appear. Choose Paste Shortcut.

Easy icons

When you change the icon for a shortcut, you can select any BMP file and Windows will create its own 32 by 32 icon out of it. For best results, use a fairly simple image and scale it down at least to something like 100 by 100 pixels in a bitmap editor first. The procedure to set an icon is simple: right-click the shortcut, select Properties from the pop-up menu and click on Change Icon . . . then browse to select your file, using the All Files mode.

Change your mind?

Have you ever clicked Shutdown in too much of hurry and realised there was something else you wanted to do first? You don't have to wait for the PC to shut-down and then restart it: when you get the screen that says 'It is now safe to turn off your computer', just type 'win' and press

FATter disks

FAT32, the new disk management system, attracts a lot of people to OSR2 (Windows 95b). It is supposed to be more economical with space, which is something we're all short of. Unfortunately, it appears that Microsoft doesn't want us to use the FAT32 option. To install it, you need to run OSR2 utilities to format and partition the disk — and when you do that, you destroy all disk contents, so you have to install OSR2 again. Yes, folks, Microsoft created a one-way conversion utility cvt.exe, but it's available to beta testers only. The rest of us are expected to first install OSR2, then repartition and format the hard disk, then install OSR2 again . . . This is not easy: without an operating system, how are you going to get the CD going? Well, we have a couple of tips — but read on.

FAT32 may not be worth all the trouble, anyway. There are reports that it can be slower, which is no surprise — on a large disk, it has to handle more and smaller clusters for the same amount of data. Worse, old DOS applications (the ones that can't run in a Windows 95 window) don't understand FAT32, so you'll never run another such program — unless you keep one FAT16 partition especially for games; either to install the games or for a place to store their temp files when you run them directly from the CD. DriveSpace 3.0 (yes, the upgraded version that comes with OSR2!) is also a problem; so far, you can't compress FAT32 partitions. Well, that shouldn't be a big concern with those enormous disk drives, but what's worse is that aspidisk.sys, the driver for SCSI CDs and hard disks, also doesn't work.

If you still feel FAT32 is worth the trouble, here are some workarounds:

Easiest of all is to use Power Quest's Partition Magic 3.0 or Quarterdeck's Partition-It. Both can convert a FAT16 disk to FAT32 once OSR2 is installed. If you don't want the expense, there are two ways to minimise the pain of installing OSR2 with FAT32 and both involve creating a W95 boot disk. If you have two hard disks, you can copy the OSR2 installation set (folder Win95) to the non-booting disk to get around CD driver problems. If that option is not open to you, you need to put real-mode (DOS) CD drivers on the boot floppy (unless, of course, you have OSR2 on floppies). Assuming that you already have at least DOS on the system, you can create suitable startup files by re-booting in DOS mode and installing the DOS drivers that came with the CD reader.

The next step is to start installing OSR2. When you reach the point where it recommends that you create a boot floppy, say 'yes', then, as soon as the boot floppy is done, cancel the installation. The reason for that is that you now have FAT32-compatible FDISK and FORMAT on your boot floppy. If applicable, you now copy the config.sys, autoexec.bat and CD driver files to the floppy, not forgetting to edit the command lines in config.sys and autoexec.bat to point at the new location of the driver files.

Now reboot with the new boot floppy, then repartition and format your C: drive in FAT32 format with FDISK and FORMAT from the floppy, and start installing OSR2. After first making sure that the CD reader works, of course . .

But why should I?

For the benefit of new chums, let me start by explaining what the FAT (File Allocation Table) system is all about. Each track on a disk is divided into sectors, and space is allocated to each file in units of so many sectors, called clusters. The number of sectors to a cluster — or rather, the number of Kb that can be stored per cluster — depends on the disk size and is imposed by the FAT.

The FAT is a table with an entry for each cluster on the disk, consisting of a flag that may mark the cluster 'in use', another that may mark it 'faulty' and numerical pointers to the preceding and following clusters owned by a particular file. Because the pointer numbers are 16-bit binary numbers, this table can address only 65,526 (64Kb) clusters.

I'm sure you're ahead of me here. Yes, that means the size of each cluster is in principle the total disk space (or, to be precise,

Enter. A Windows 95 system shutdown closes the registry, and drops you back to a DOS session, but displays a graphics message for you to turn off your computer, even though it's really sitting at the familiar C: prompt. If you want to keep operating in DOS mode, type 'mode co80'.

Icons anonymous

In DOS, Alt+255 is a handy non-displaying, non-keyboard character that makes any filename unopenable — except to those who know the secret. You occasionally see the advice to use this in Win 95 icon names — to create an icon without text under it — and why not, icons have a meaning of their own and once you know it, you don't need the text. But Win 95 reacts unpredictably and the icon may become unusable. Instead, use Alt+0160, which is the ANSI non-displaying space (Windows uses ANSI code, not ASCII).

As Microsoft logic will have it, even anonymous icons must have different names; do this by adding a unique number of ordinary spaces after the non-displaying one — they won't show up, either.

Just one problem: when you run Defrag or Scandisk, you'll get an error message about "invalid long filenames in \Desktop" and when you choose the "fix" option, you'll get squiggle filenames instead of your invisible ones.

Controlled panel

If you're using the Control Panel quite often but only using some of its icon, you may want to reduce the clutter and speed up access. There's a very easy way:

1. Right-click the Start button and select Open from the pop-up menu. This opens the main menu section as a folder.
2. Right-click on a blank part of the folder and select New, Folder from the pop-up menu. Name the new folder Controls or whatever else catches your fancy.
3. Open the Control Panel as usual.
4. Select the icons you want quick access to (hold Ctrl while clicking), then right-click the selected group and drag it on to the Controls folder. Select Create Shortcut(s) here.
5. If you like, you can now open the

partition space, because each partition has its own FAT) divided by 65,526. It's not quite that simple; the system works in steps. Here's a table of cluster sizes for different partition sizes:

Partition size	FAT16 cluster size
1-2Gb	32Kb
512Mb-1Gb	16Kb
256-512Mb	8Kb
128-256Mb	4Kb
64-128Mb	2Kb
<64Mb	1Kb

The problem with this is that if you have a really small file — say, 10 bytes — it still takes up 32Kb on a 2Gb partition (or 8Kb on a 512Mb one). Also, very few files pan out at an even number of clusters. Averaged over a large number of files, every file wastes half a cluster. Say for the sake of argument that you have an extreme case — a 2Gb partition with 20,000 small (average 53Kb) files on it; the wasted space is 20,000 times 16Kb, which makes 312Mb and small change.

This is why it's popular to subdivide large FAT16 disks into smaller partitions. If we store the same 20,000 files on the same disk but divide it into four 512Mb partitions first, the total wasted space for the whole disk becomes 78Mb, which looks rather better. Another advantage is that this subdivision helps with organising your data, since you can in theory keep one type on each partition. Drawbacks? Well, if you need to store files larger than 512Mb, you can't do it — but that also means much fewer files, so there will be little wasted space even on an undivided disk.

However, Microsoft could see the time coming when drives larger than 2Gb would be in use, and had presumably been nagged half to death about wasted space on large partitions. Hence FAT32, which is the same system but uses 28-bit numbers (four bits are reserved for other use) to address 268,435,456 clusters per partition. Cluster size is set to 4Kb (as for a 256Mb partition), so this system can theoretically handle partitions up to 1Tb (yes, folks, 1024Gb). However, sanity prevailed and somebody realised that handling that many FAT entries would be seriously slow, so the system was limited to 8Gb with the 4Kb cluster size; for larger partitions (2Tb is the limit), larger clusters are used. DOS-type applications (the ones that can run in a W95 box) can only be used on partitions up to 2Gb and Win 32 applications can handle 4Gb — just to make life more complicated.

Partition size	FAT 32 cluster size
Over 32Gb	32Kb
16Gb-32Gb	16Kb
8Gb-16Gb	8Kb
260Mb-8Gb	4Kb
<260Mb	512 bytes

Summing up the advantages and drawbacks, FAT32 lets us have larger partitions and we lose less dead space at the expense of some small speed loss and limitations on DOS and Win32 programs. How much is the dead space improved? Well, in the previous example, we'd get 20,000 x 2Kb = 39Mb. The FAT for that disk, always stored in two copies, would take up about 4Mb more than the FAT16 version, so call it 43Mb. That's a sizeable improvement, but not earth-shattering.

So which system should we use? Well, let's put the waste space 'problem' into perspective: using our extreme example and subdividing the disk into four logical drives, the lost space is all of 3.8 per cent, as against FAT32's 2.1 per cent. Big, smelly, gently steaming deal . . .

If you're after extreme space saving, there's a better way. Compressing a FAT16 drive with DriveSpace 3.0, all your files are stored in a single real file, and the maximum space waste possible is one byte less than 32Kb — which is not even a fleabite considering that you've just crammed 4Gb worth of files on to that 2Gb disk . . .

Would I recommend compressed FAT16 over FAT32 if space is critical? You bet. Only if I absolutely had to have single partitions larger than 2Gb would I use FAT32; the drawbacks in the form of driver and application problems will have to be ironed out to make a more general adoption worthwhile. Roll on OSR3 . . .

new folder in the usual way and rename the icons.

Speed thrills

In its endeavour to make Windows 95 pretty, Microsoft has added a few frills that waste the time of operators in a hurry — window animation on zooming, for one, and slow menu expansion for another. Fortunately, TweakUI in the PowerToys can shut down window animation and lets you set the popping-out speed of the Start menu submenus to a pace you find comfortable — as well as a number of other adjustments that take you beyond the standard user interface. Try it — it's on our monthly CD.

Expert

Manage your own memory

If you're trying to free up lots of conventional memory (perhaps for an old DOS game), you'll find that OSR2 lacks the familiar DOS MemMaker utility. That's okay — you don't need it to configure Windows 95 to manage conventional memory for each application.

Copy the MS-DOS Prompt shortcut on the desktop or elsewhere, right-click the shortcut icon and select Properties from the pop-up menu. On the Program tab, click on the Advanced button. Check the MS-DOS Mode box, then click Specify a New MS-DOS Configuration. Click on the Configuration button, and check the EMS box. Add NOEMS to the end of the EMM386 line. If you use DriveSpace, add the line DEVICEHIGH=C:\WINDOWS\COMMAND\DRVSPACE.SYS /MOVE at the end of the config.sys file shown in the scrolling box. Change Device= commands to DeviceHigh= for any drivers except himem.sys, and insert LH before any drivers in autoexec.bat except the mouse. You may also need to add CD and sound drivers.

After you reboot the computer in your new DOS mode, run MEM/C/P to check what has loaded and what hasn't; you may want to change the order of some items to fit as much as possible into upper memory.

DOS/Windows 3.11 tips

From undeleting under 32-bit file access to editing system files — Link Harris's hottest tips.

What you need	User Level
Windows 3.1x	Easy — Expert

Windows only

Dodgy disk access

If your BIOS or hard disk controller has an in-built optimising routine for disk access, Windows 32-bit disk access could needlessly repeat the optimisation, slowing — rather than speeding — disk operations. Check the documentation for your BIOS and hard disk to see what you have.

Undeleting under 32-bit file access

Windows for Workgroups 3.11 offers the option of 32-bit file access but, if you accept it, you lose Windows Undelete for files on the hard drive. However, if you have DOS 5.0 or later, you can recover a zapped file from the native DOS prompt (type HELP UNDELETE for details).

Quick check

To quickly check whether Windows 32-bit disk access is slowing your system, disable it for the current session by typing WIN /D:F to start Windows.

Two's company

No matter how many applications are open, pressing Alt, tapping Tab and releasing Alt switches to the previous application you were using. This is a great timesaver when you're split-typing between two applications.

Skip the Startup

The Startup Group is handy for automatically opening programs you use all the time. However, it's a nuisance to have to wait while all the heavyweights load if all you want to do is one quick job — like sending a fax or checking an address. To bypass the Startup group for quickies like these, after you type WIN and press Enter, press and hold Shift until Program Manager appears.

Window cleaning

If you regularly make a mess of your desktop, uncheck Save Settings on Exit from Program Manager's Options menu. That way, every time you restart Windows, it will tidy your desktop.

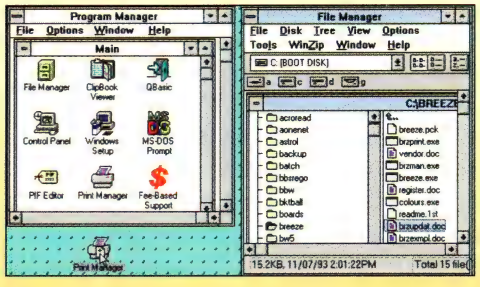
Redecorate on demand

If you discover a desktop rearrangement that suits you, it's easy to save it without quitting Windows. Press and hold the Shift key while you perform your usual routine to quit Windows (pressing Alt+F4 or selecting Exit Windows from Program Manager's File menu). The depressed Shift key keeps Windows up and running — and the resulting hard disk activity indicates your settings have been saved.

Shifty Startup

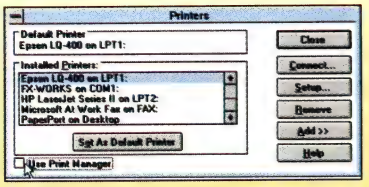
"Just in case" programs — the ones you load just in case you might need them — don't have to clutter your desktop or keep you waiting while the opening screen displays. Simply press and

Which twin?



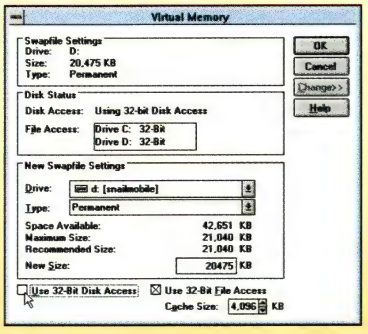
If Print Manager is running minimised, you can quickly print a file by dragging it from File Manager to Print Manager's icon. However, be sure to head for the icon on the desktop and not the one in the Main group. Dragging a file to the latter won't print the file — it creates an icon for the file in the Main group.

Fleet sheets



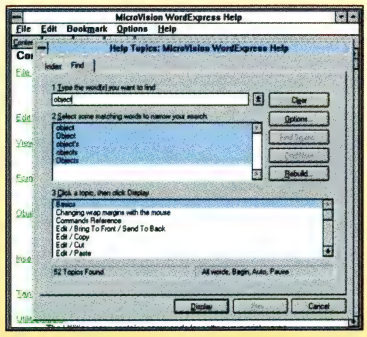
If fast printing is your first priority, bypass Print Manager and have your application talk directly to the printer. To set this up, open Control Panel from the Main Group and double-click Printers. Then click 'Use Print Manager' to uncheck it, and click Close. The price for pace? Printing a file imprisons that application until the print job has finished, and there's only room for one job in the print queue.

Dodgy disk access



To disable Windows 32-bit disk access, open Control Panel from the Main group, open Enhanced and select Virtual memory. If, in the Disk Status box, Disk Access says Using 32-bit Disk Access (rather than Using BIOS), click Change. In the Virtual Memory window, click 'Use 32-bit Disk Access' to uncheck it, and click OK. You'll have to restart Windows to put the change into effect.

Hip help



Add true text searching, right mouse-click menus and more to Windows Help files by using winhlp32.exe, instead of winhelp.exe, to open Help files.

Step 1: Install Win32s version 1.3 (from ftp://ftp.ncsa.uiuc.edu/Mosaic/Windows/Win31x/Win32s/ole32s13.exe).

Step 2: From File Manager, choose File, Associate.

Step 3: Type hlp in the 'Files with Extension:' box.

Step 4: Type c:\windows\system\winhlp32.exe in the 'Associate With:' box and click OK.

Step 5: Now double-clicking on a file with extension HLP will give you the full 32-bit bag of help tricks.

hold Shift while you double-click on the icon to start the program, and the program will start but stay minimised to an icon.

Enter as well

The above trick also works with Enter. After you select the program's icon, pressing Shift+Enter will load the program minimised to an icon.

Files included

Both shifty minimise tricks also work with files launched from File Manager.

Slipper video drivers

Changing the resolution or number of colours in your video display means picking a different video driver.

Torrid temp files

During a Windows session, both Windows and Windows applications create temporary files, and these can consume many megabytes on your hard disk.

Fastest drive

Give Windows a speed boost by telling it where to put those files on your fastest hard drive. If it's the D: drive, for example, create the directory D:\TEMP and add the line:

SET TEMP=D:\TEMP

to your autoexec.bat file.

Clean sweep

Not all programs clear out their contributions to D:\TEMP when they're closed, especially if they're closed by crashing, so it's a good idea to check D:\TEMP from time to time and delete any stragglers. Be sure to quit Windows and do this from the native DOS prompt — otherwise deleting temporary files could cause Windows to crash.

Compression depression

If you're using DriveSpace or other disk compression, storing temporary files on the compressed drive drags Windows down. Instead, use the uncompressed host, usually the H: drive. Create H:\TEMP and put a matching line:

SET TEMP=H:\TEMP

in your autoexec.bat file. After rebooting, you can delete C:\TEMP (the original temp file) and its contents.

File Manager refresher

The File Manager display can't always be current if other applications add or delete files, if you make changes at the DOS prompt or if you swap floppy disks. To be sure what you see is what you have, press F5 to refresh the active File Manager window.

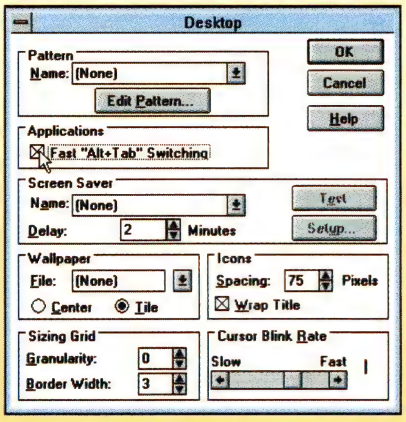
DOS & Windows

TSRs on tap

Even when they're run from Windows, DOS programs bump up against the 640Kb conventional memory barrier. Because of the way Windows runs each DOS application in its own virtual PC, however, there are two tricks for dealing with TSRs that can't be loaded high into UMBs from autoexec.bat.

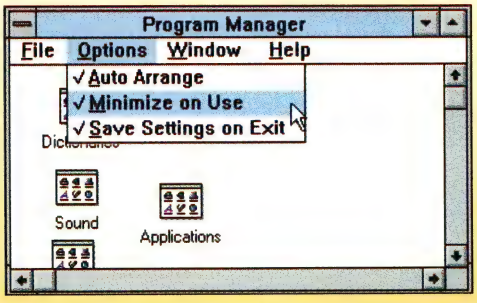
Trick 1: If a TSR is used only by a particular DOS application, create a batch file located in the application's home directory that loads the TSR and then runs the DOS application. In the application's Program Information File

Switch applications quickly



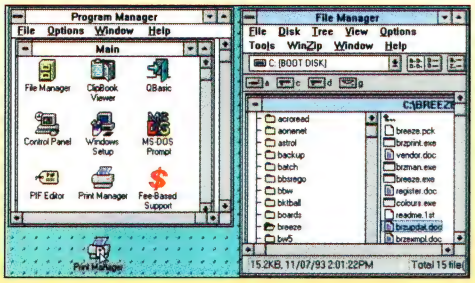
Pressing and holding Alt while tapping Tab is a speedy way to cycle through open applications. Release Alt to lock onto the application you want to use. If Alt+Tab doesn't perform, open Control Panel (usually in the Main Group). Open Desktop and, in the Applications box, click 'Fast "Alt+Tab" Switching' to check it. Then click OK.

Shrinking Program Manager



To keep the Program Manager window from blanketing your open applications or their icons, choose 'Minimize on Use' from Program Manager's Options menu. This makes Program Manager collapse into an icon whenever it's used to launch an application.

All-in-one

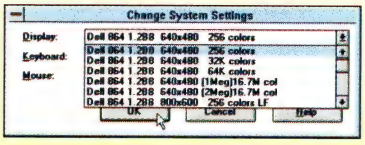


If you regularly edit your system files, it's worth running Sysedit (the Windows System Configuration Editor), which automatically opens them all. To set up an icon for launching it, from Program Manager select File, New, Program Item, and click OK. Then type Sysedit in the Description field and c:\windows\system\sysedit.exe in the Command Line field — and click OK.

(PIF), put the name of the batch file in the Program Filename field and put the path for the application's home directory in the Startup Directory field. Loading the TSR this way means it won't rob RAM from other DOS applications — whether run from Windows or from the native DOS prompt.

Trick 2: For TSRs used only by Windows applications, create a batch file called winstart.bat in your Windows directory and load those TSRs from this batch file. Like autoexec.bat, which runs automatically at bootup, winstart.bat runs every time you start Windows in 386 enhanced mode. These TSRs will load into extended memory, clearing conventional RAM for DOS applications.

The Windows way



You can usually do this from Windows by opening Windows Setup in the Main group, then choosing Options, Change System Settings and selecting the new driver from the drop-down Display list. Unfortunately, even if the driver you want is on the list, Windows sometimes refuses to pick it up.

For either of these tricks to free up conventional RAM, be sure to remove the line that loads the TSR from your autoexec.bat file.

Backup

Make a backup of any system file — config.sys, autoexec.bat, win.ini and system.ini — before you try to change it. Then you can easily put things back the way they were if your changes create havoc.

Text editor

When editing system files use a text editor, such as DOS Edit or Windows Notepad, not a word processor.

Each way bet

The best way to temporarily disable a line in win.ini, system.ini or config.sys is to put ; at the beginning of that line. In autoexec.bat, add REM, followed by a space at the beginning of the line. Disabling a line this way makes it easy to reinstate that line, typo-free, by simply removing whatever you added at the beginning.

Starting over

For changes in win.ini or system.ini to come into effect, you have to quit and restart Windows. If you change config.sys or autoexec.bat, you have to reboot to see the effects of your editing.

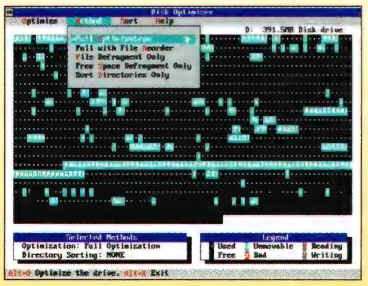
Clean boot

If a change to your config.sys or autoexec.bat startup files prevents your PC from booting, DOS 6.x will bypass both files at bootup if you press F5 when the message 'Starting MS-DOS . . .' appears. Then you can use Edit to repair the offending file and reboot.

Step-by-step

To determine which line in a startup file is causing the problem, or to skip a line when booting, press F8 at the 'Starting MS-DOS . . .' message. DOS will display each line in config.sys and ask whether to carry out that command. You'll then have the option to run autoexec.bat. Users of DOS 6.2x will be able to step through autoexec.bat as well as config.sys.

Shared drives



If Windows 95 shares drives with OpenDOS, use Disk Defragmenter from Windows 95 instead of DISKOPT (above) — and use ScanDisk from Windows 95 rather than the OpenDOS CHKDSK.

Lock out the bypass

To deactivate F5 and F8, preventing someone else from accidentally or otherwise bypassing the startup files, add the line SWITCHES/N to your config.sys file.

User's choice

If you want to decide on a particular config.sys command every time you boot, add a ? at the end of the command name. For instance, the line INSTALL=C:\DOS\SHARE.EXE /L:500 would become INSTALL?=C:\DOS\SHARE.EXE /L:500.

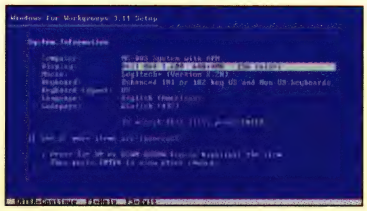
Caching your CD-ROM

SmartDrive from DOS 6.2 or later will cache CD-ROM drives, but only if the line that loads mscdex.exe in your autoexec.bat file comes before the one that loads smartdrv.exe.

Win32s

Win32s version 1.3 is included on this month's CD-ROM. See page 3 for details.

DOS does it



When this happens, quit Windows (to the native DOS prompt) and run the DOS version of Windows Setup.

Step 1: Move to your Windows directory (usually C:\WINDOWS). That way Setup will find the current information about your system, including the video drivers — and you won't risk running the setup utility for another program by mistake.

Step 2: Type SETUP at the DOS prompt.

Step 3: Use the cursor arrow keys to select Display, and press Enter to see the list of video drivers.

Step 4: Use the cursor arrow keys to select the driver you want and press Enter to return to this screen with the new driver shown.

Step 5: Press Enter to accept this screen, and Enter at the next screen to accept the currently installed driver — which will be installed the next time you start Windows.

Lost CD-ROM drive

If you've installed a second hard disk — or increased the number of partitions on a single disk — it could confuse your CD-ROM software. That's because DOS demands that logical drive letters for hard drives go in sequence. If your disk is drive C: and your CD-ROM drive D:, a second disk drive assumes the D: identity, pushing your CD-ROM drive to E:. The confusion comes because some CD-ROM software will only look for the disc on drive D:, the location when the software was installed, instead of checking with DOS to see where the CD-ROM drive actually is now.

You can repair the damage by reinstalling the CD-ROM software. Before you do, avoid similar problems in future by leaving room for hard drive expansion. Unlike DOS's rigid assignment for hard drives, the logical drive for a CD-ROM doesn't have to be the next in succession. All you have to do is add the switch /l:h to the mscdex.exe line in your autoexec.bat file, substituting for H the actual logical drive you want for the CD-ROM. The line would look something like this:

LH C:\SB16\DRV\MSCDEX.EXE /V /D:MSCD001 /M:15 /L:H

Logical expansion

If you specify a logical drive beyond E: for your CD-ROM drive, you'll also need the line:

LASTDRIVE=H

(or further along in the alphabet — it can go up to Z) in your config.sys file. But don't be unnecessarily extravagant. Each drive reserved beyond E: eats up about 100b of conventional RAM, so you'll waste about 2Kb with LASTDRIVE=Z if you only need five or fewer logical drives.

Network sharing

To share your CD-ROM drive on a Windows for Workgroups network, add the /s switch to the line in your autoexec.bat file that loads mscdex.exe. Other PCs on the network don't need to have mscdex.exe loaded in order to use your CD-ROM drive.

OpenDOS only

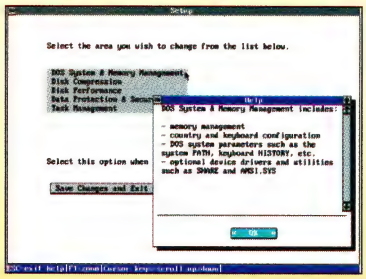
OpenDOS docs

The OpenDOS installation program creates DOSBook, a comprehensive on-disk user guide with hypertext links that covers OpenDOS basics, commands, utilities and troubleshooting — but be sure to check for updates in the file readme.txt. There's a slightly different coverage in the Web-based OpenDOS 7.01 User Guide, complete with 26 hyperlinked chapters plus several appendices at http://www.caldera.co.uk/dos/usergeng/front.html.

For help with troubleshooting, try the Unofficial OpenDOS Page FAQs at http://www.deltasoft.com/faq.html or OpenDOS Bug Fixes at http://null.musc.edu/opendos/. Since neither of these two sites is authorised by Caldera, the advice on both — particularly the second — should be viewed with a critical eye.

Although Novell doesn't support OpenDOS, there's some relevant material in their searchable Knowledgebase and Frequently Asked Questions for Novell DOS 7 at http://support.novell.com/home/desktop/nd7/ and a similar site for Personal Netware at http://support.novell.com/home/desktop/pnw/. However, resist the temptation to gorge OpenDOS with Novell updates and patches,

No tweaking trauma



The OpenDOS Setup program takes the trauma out of tweaking your startup files. If you don't have a mouse, use the cursor arrow keys to move through the options. Pressing F1 at any stage displays context-sensitive online help.

Caldera OpenDOS

Caldera OpenDOS 7.01 comes in two flavours. The installation files for OpenDOS Lite and the archive for OpenDOS (Lite plus networking software) are included on this month's CD-ROM. You can pick up the password for the archive at http://www.caldera.co.uk/dos/. See page 3 for details.

unless there's one designed to pull you out of a particular problem. Caldera has already incorporated all the Novell patches that have been fully tested. The US Novell site is mirrored locally at support.novell.com.au but, ironically, the Oz site is often slower.

Command line control

You can customise Task Manager from the command line — to use the numbers on the standard keyboard instead of the numeric keypad, for example — but these changes only last until you reboot. Type TASKMGR/S? (rather than the usual TASKMGR/?) for a full selection of switches.

Clearing conventional RAM

If you crave conventional memory, go for OpenDOS DPMS-savvy server.exe (Personal NetWare server), NWCACHE, NWCDEX, DELWATCH and the Stacker disk compression software. All except NWCDEX can be configured from Setup. However, avoid using Stacker on any drives used by Windows 95 or NT. The same applies to DELWATCH, which goes berserk over long filenames — use the less weighty DISKMAP instead for delete recovery.

History repeats . . .

Although MS-DOS uses the DOSKEY command for macros as well as recalling previous keystrokes, OpenDOS divides those roles between HISTORY, which is installed by default, and DOSKEY. If you don't run DOS macros, free some RAM by REMming out the DOSKEY line in your autoexec.bat file.

Be original

The OpenDOS Install program saves your original config.sys and autoexec.bat files as *.OLD, and the Setup program saves them as *.BAK. If you want to preserve backup copies you have made of these files, use another extension, such as *.ORG.

Windows NT4 tips

Power up NT with Link Harris's hot tips for all types of users.

What you need	User Level
Windows NT Workstation 4.0	Easy — Expert

Command mode

Despite NT's GUI glamour, it still retains links to its MS-DOS roots. Identified by an MS-DOS icon on the Programs menu, the Command Prompt looks like the good old DOS prompt — and typing to it is often the only way to make NT toe the line.

FAT rules!

When it comes to trading data, FAT is the common currency. That's because a drive formatted with NTFS is invisible to PCs running DOS, Windows 95 or OS/2. If you need to share data across a network with non-NT PCs, stick with FAT for formatting your NT drives. The same applies if you dual-boot and want access to your NT files from the other operating system on your own PC. Floppies don't require a decision — FAT is the only option.

Omnipotent NTFS

Running an NTFS drive poses no problem if you're the one trading data with FAT drives. Multilingual NT translates automatically between systems, and FAT files created from NTFS-based NT are readable from DOS, Windows 95 or OS/2.

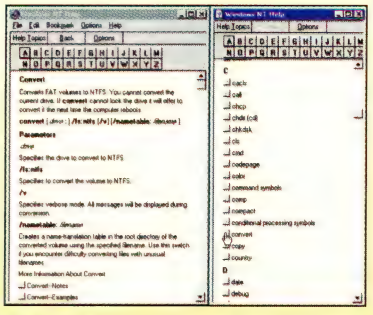
Converting the FAT

After you install NT, you can convert a FAT partition to NTFS by typing:

CONVERT D: /FS:NTFS

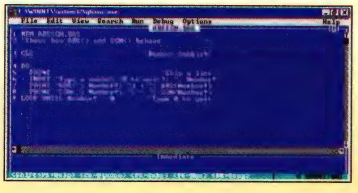
at the command line, where D: is the name of the drive you want to convert from FAT to NTFS. Running convert

Help me!



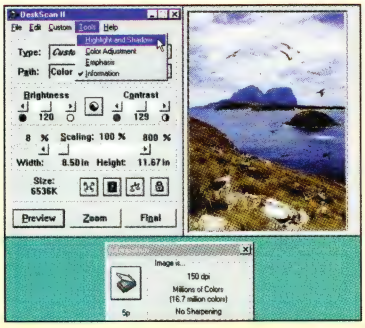
Like DOS, typing /? after a command brings up a terse single screen explaining the command and its switches. However, unlike DOS, typing HELP before the command displays the same screen. To view NT's version of the more expansive DOS HELP, return to the desktop and press F1 for Help. Then search for Commands Index, where clicking on a command name displays a Details window, often with links to Examples and Notes windows — à la DOS HELP.

QBasic lives!



Unlike Windows 95, NT has held onto QBasic v1.0. If you want to dabble in DOS-based programming, open the Start menu and type qbasic in the Run dialogue box.

HP scanner software



The PictureScan scanning software bundled with HP ScanJet 5p scanners works with Windows 3.1x and 95, but not NT4. Filling that scanning void, DeskScan II version 2.5 links NT4 to ScanJets 3p, 4p, 3c, 4c IIc, IIcx and IIp — as well as the 5p. Installing to just over its 3.5Mb, the archive sj211en.exe is available from http://www.hp.com/cposupport/indexes1/sj5p.html or ftp://ftp2.hp.com/pub/scanners/software/

Note that NT won't recognise the scanner if it's not powered on before the operating system loads. Also, DeskScan doesn't support the 5p's green front-panel Scan button.

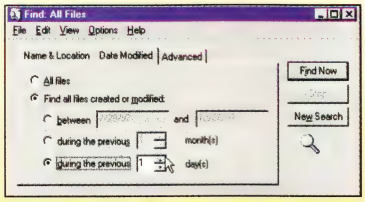
HP's 16-bit PaperPort image management and OCR software is happy in Windows 3.1x, 95 or NT, and you can re-install it in the same folder for dual-boot systems. If you're using Office 97, you can add PaperPort links for Word and Excel by downloading sj104en.exe from either of the above Net sites, and installing the two files held in the archive.

preserves your existing files, but choose a time when you won't need your PC for a while — it could take several hours per Gb.

Bootup barter

While NT is running, convert can't swap FAT for NTFS on the NT boot drive. However, it will give you the option of converting the next time you boot the PC, and will automatically reboot after swapping the file systems.

Typing's faster



You don't have to use the spinner arrows to change a setting. For a large change in the value, it's faster to type it in (after first clicking on the field to select it).

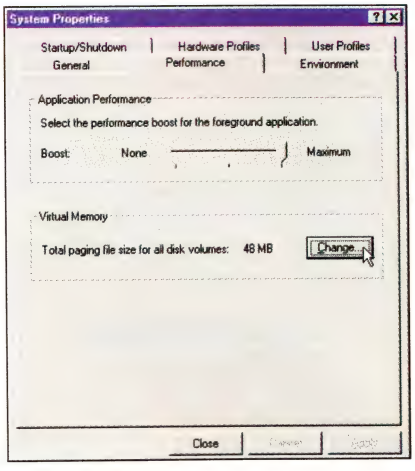
Brute force FAT

Unfortunately, convert is only a one-way utility, and won't transform an NTFS drive to FAT. The only way to do this is to reformat the drive, which you can do by clicking Start, Programs, Administrative Tools, Disk Administrator, Tools, Format. Formatting destroys all the data on that drive, so be sure to backup first and restore after reformatting. The process is more complex if the drive holds NT system files, because you have to run Setup from your NT installation floppies, and reformat the drive from there.

Elbow room

Even if you have plenty of space on another drive, some applications demand to be installed on your NT drive (the one where your NT files are kept). A nearly full NT drive, however, could scuttle the installation. You can create more native NT space by moving the paging file (hard disk space NT uses as virtual memory) to another drive.

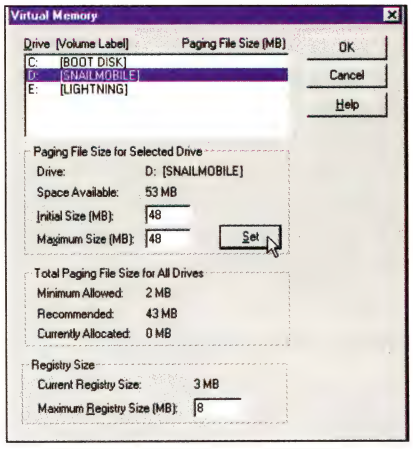
Step 1: Right-click My Computer and select Properties from the context menu.



Step 2: Click the Performance tab and, in the virtual Memory box, click Change.

Step 3: In the Virtual Memory window, select your NT drive (C: in the screenshot), clear the Initial and Maximum Size fields, and click Set. This frees the space previously used by the paging file.

Step 4: Select another drive (D: in the screenshot) and specify the Initial and Maximum Sizes, using NT's



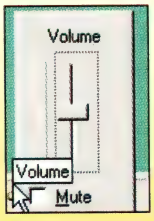
Recommended size (or the amount of your RAM plus 12Mb) as a guide for the Initial Size. Then click Set.

Step 5: If you're also short of space on the non-NT drives, you can spread the Initial Size of the paging file over several drives.

Step 6: Click OK to accept the new paging file settings, and click Close at the System Properties screen.

Step 7: Before installing the demanding application, reboot your PC to activate the new paging file settings.

Sound control



You can adjust the volume on your soundcard by clicking the speaker icon in the Taskbar next to the clock. Click Mute to check it silences your speakers.

Check your disk

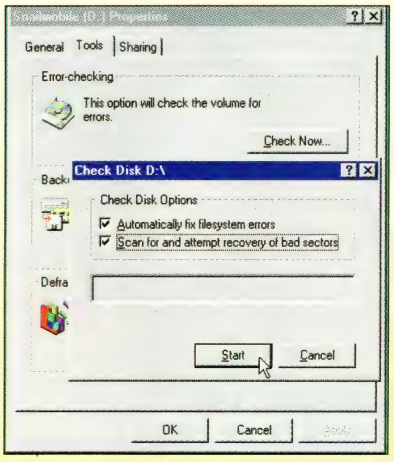
Although it retains the early DOS moniker, NT's Check Disk is really a crude 32-bit ScanDisk without the pretty face. You can have it check the condition of your disk and its file system from either My Computer or Windows NT Explorer.

Step 1: Right-click the drive you want to check and choose Properties.

Step 2: From the Tools tab, click 'Check Now' to bring up the Check Disk window.

Step 3: With neither box checked, clicking Start has Check Disk examine your file system but do nothing about any errors it finds. It will repair them (which is what you want) if 'Automatically Fix File System Errors' is checked.

Step 4: Click to check 'Scan For and Attempt Recovery of Bad Sectors', which has Check Disk do a surface scan of the drive. Although this takes a few minutes, it's good insurance.



Step 5: With both options checked, click Start.

Step 6: Check Disk can't run on drives where NT is using files, so for your boot drive or your NT drive (if they're not the same drive), click Yes when NT asks whether you want to schedule the disk check the next time you restart your computer.

More elbow room

If you dual-boot to another operating system, you can use the space claimed by NT's paging file, by deleting D:\PAGEFILE.SYS (replace D: with the drive where NT's paging file is kept). Although NT won't let you delete the file, you can do it from the other operating system. You can even automate the process with DOS or Windows 95 by adding the line:

```
DELETE D:\PAGEFILE.SYS
```

to your autoexec.bat file. The extra space is only a loan, however, because NT will need it for recreating pagefile.sys the next time it starts.

Case counts

Your logon password can contain up to 14 characters and is case sensitive — so mind the CapsLock key.

Time for a change

To change your logon password, press Ctrl+Alt+Delete from the desktop or any program and click Change Password. Type in your current password and the new password. For security, NT displays asterisks as you type the passwords, so it makes you repeat the new one to be sure you've typed it properly. Then click OK, click OK again on the message box telling you your password has been changed and then click Cancel to close the Windows NT Security dialogue box.

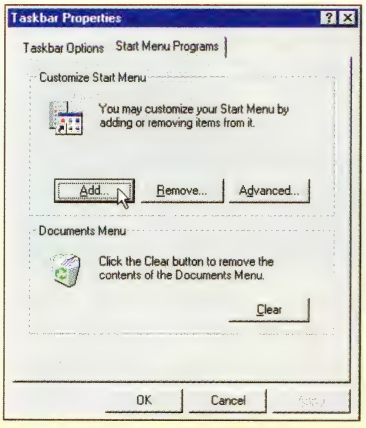
Quick quits

To quit NT quickly from the keyboard, press Ctrl+Alt+Delete from the desktop or any program, tap S and press Enter.

HP archive

The archives sj211en.exe for DeskScan II version 2.5 scanning software, and sj104en.exe for Office 97 PaperPort links — both for HP ScanJet scanners — are on this month's CD-ROM. See page 3 for details.

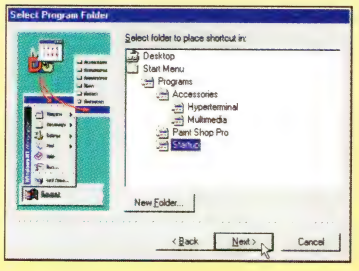
16-bit kick-start



When NT runs Windows 3.1x applications, it uses wowexec.exe to bridge the 16-bit/32-bit gap. The consequence is that before the first Windows 3.1x application can open, it has to wait while wowexec.exe loads. You can avoid this delay by adding wowexec.exe to your Startup programs.

Step 1: Click Start, Settings, Taskbar.

Step 2: Click Add from the Start Menu Programs tab, type c:\winnt\system32\wowexec.exe (replace c: with the drive where your NT files are held) and click Next.



Step 3: In the Select Program Folder window, click to select the Startup folder and click Next.

Step 4: In the Select a Title window that follows, click Finish to accept wowexec.exe as the name for the shortcut, and click OK at the Start Menu Programs tab. Now, after starting NT, the first Windows 3.1x application you launch won't have to wait while wowexec.exe loads.

OS/2 Warp 4.0 tips

There are many ways to become more productive using OS/2. Mark Rogers offers his favourites.

What you need	User Level
OS/2 Warp 4.0	Easy — Expert

CHKDSK run around

As many of you know, if your system is shutdown improperly, OS/2 will run a CHKDSK on your system during its next startup. You can get around this in Warp 4.0 by using the following line:

IFS=C:\OS2\HPFS.IFS /FORCE /QUIET /AUTOCHECK:CDE

Assuming you also have an F: drive, and it has had a 'dirty' shutdown, it will not be checked. This is where the /FORCE command comes into the picture. The /Quiet command's job is to hide any screen output. As nice as the /FORCE feature seems it is never a good idea to leave a dirty drive in that state. You should run the chkdsk.exe command on it as soon as possible.

WarpCenter make over

You can change the look of your WarpCenter clock by entering the following line in your config.sys file:

SET SCUSEPRETTYCLOCK=ON

Now save it, and reboot to see the difference.

Copying text with the mouse

This will work in most text applications, though not all. Firstly swipe the text to be copied with your left mouse button, then tap your right mouse button. This performs the copy to clipboard function. Then position the text cursor with your right mouse button and hit the left mouse button, which completes the paste function.

Free Easter egg!

Did you know that every version of OS/2 since version 2.0 comes with an Easter Egg? Firstly single-click the left mouse button on your OS/2 Desktop, then hit Ctrl+Shift+Alt+O, and up pops the people who helped create your version of OS/2. You can hit Enter or Esc to leave the screen.

See file attributes

Are you sick of using the attrib.exe command to see the file attributes on the command line and watch as the files go flying by? Well there is a way out: typing the /V switch after a normal DIR command. Then just add the normal /P command to pause the scrolling display.

Add a 'Find' utility

If you have a 'File Find' utility which you prefer over the one built into OS/2, just enter:

SET SCFINDUTILITY=YourFileFindUtilityName

into your config.sys file and reboot.

No more registration

If you do not want to register your copy of OS/2 Warp 4.0, you may find the occasional recurrence of the registration screen annoying.

Here are two ways out of it:

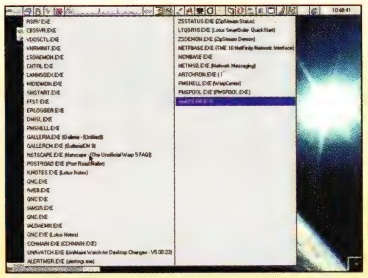
1. Find the \OS2\ART directory and rename it to something else like \OS2\GOTCHYA.

2. Using your drives icon, find the 'Install Object, Inventory' in the \OS2\INSTALL\INSTALLED FEATURES and double-click on it. Select the ART-Inventory checkbox and hit the Uninstall button.

Getting through the layers

The WarpCenter can be great for navigating folders and drives, however, it can be a pain if you want to open a folder that holds data or programs that are several levels deep. Clicking your right mouse button on a Taskbar folder will cause it to open up without the normal cascade effect occurring! ❑

Stop prompt

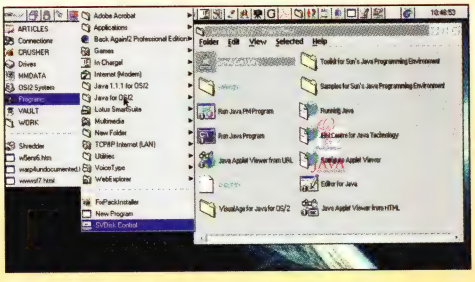


Add the following line to your config.sys file if you enabled the WarpCenter's 'Kill' feature (SET KILLFEATUREENABLED=ON):

SET SCKILLCONFIRMDISABLED=ON

Once rebooted this will stop the 'Are You Sure You Want To Kill This Process?' prompt.

Ctrl scrolling



This may help power users who love having multiple windows open. You can scroll any window that doesn't have the main focus by hitting the Ctrl key and then scrolling with the mouse! Using the Ctrl key you can also drag and double-click the titlebar (for Maximize and Restore) without that window jumping to the foreground.

What you need	User Level
Windows 3.1 or later 14,400bps or faster modem SLIP/PPP Internet connection	Easy — Expert

Internet tips

Rose Vines gets you surfing productively and hassle-free with these expert tips.

Internet addresses

Intelligent guessing

Looking for a company's Web site but not sure where to start? You can, of course, use a search engine to track it down. But here's a much quicker technique that often pays off: simply use the company's name. For instance, if you want to locate drivers for your Hewlett-Packard printer, type *www.hewlett-packard.com* or *www.hp.com* (*hp* is a common abbreviation for Hewlett-Packard) into your browser's address box and see if you make a match. Chances are, you will. You can also tack "au" onto the end of the address if you want to see if there's an Australian site for the company.

(By the way, all three of these addresses — www.hewlett-packard.com, www.hp.com and www.hp.com.au work. Companies often have multiple addresses which point to the same site, to ensure that customers can find them easily.)

Here's one caveat: the obvious address is not always the correct address. For instance, if you're looking for Creative Labs so you can find the latest software for your Sound Blaster card, typing *www.creative.com* will turn up a site, but it's not Creative Labs. You'll need to type www.creativelabs.com to get to the correct place. It's not always obvious you've stumbled onto the wrong site: make sure you look around carefully when you first arrive.

Smart addresses

Browsers have been getting progressively more intelligent about Web addresses. It used to be that you had to type the full address, including *http://* at the beginning. Then they did away with the need for the *http://* and you could get what you wanted without it.

The most recent generation of browsers go one step further: you don't even need the *www* prefix and *com* suffix. For any Web address that takes the form www.sitename.com, all you need to do is type *sitename* in the address box and hit Ctrl+Enter. Unfortunately, this doesn't work for addresses ending in *.com.au*. Nor will it work when you're looking for an FTP site or other non-Web Internet address. Then you'll have to provide the full address.

Auto-complete

Save yourself typing and let your browser do the work: both Netscape Communicator and Internet Explorer 4.0 feature auto-completion of addresses. Each browser stores a list of recently visited Web sites. When you start to type an address, the browser will attempt to auto-complete the full address for you by looking up matching entries from sites you've visited in the past. If the auto-completed entry is incorrect, simply keep typing.

Searching

Voyeur

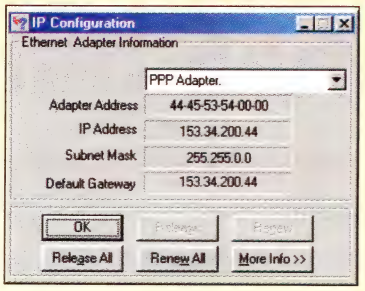
"Cheat codes for Quake"; "loch AND monster"; "adult"; "data blades". Ever wondered what other people are searching for on the Net while you're doing your own scavenging?

Magellan's Voyeur (http://voyeur.mckinley.com/cgi-bin/voyeur.cgi) is a snooping program that lets you see what terms other people are using to search the Net. Voyeur displays 12 random search commands currently in use on the Magellan search engine, and updates the list every 15 seconds.

Longer means smaller

It pays to be specific when using search engines. Say you're interested in inter-species communication between dolphins and humans, and you type *dolphins* into a search engine. The result? Hundreds of hits, but maybe only a hand-

What's my IP?



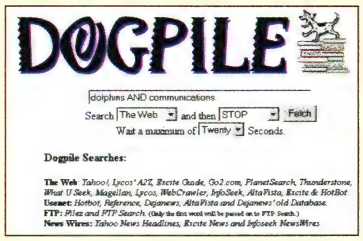
Sometimes when you're online you need to know your IP address. This is the address assigned to your connection to the Internet, and it's how information you request gets sent to you correctly. If you play online games with others and in various other circumstances, you'll need your IP address to create a direct connection between you and another Internet user. As your IP is dynamically assigned — that is, you get a different IP each time you connect to the Internet — how do you know what yours is?

It's easy to find out:

1. Click the Start button and choose Run.
2. In the Run dialogue box, type *winipcfg* and click OK.

A dialogue box will be displayed, containing your IP address as well as other information.

Meta searches



If you're having trouble finding matches for a specific search inquiry, try a meta-search engine such as Dogpile (www.dogpile.com) or Inference Find (www.inference.com/ifind). These search engines take your inquiry and pass it to a group of other search engines. You can usually specify in some way which engines should be searched and how thorough a search should be conducted. In this way, you can often track down an elusive reference with a single query, instead of trawling through half-a-dozen separate search engines.

ful will mention interspecies communication. However, if you search for *dolphins AND communication* or *dolphins AND "interspecies communication"* (the syntax will differ slightly depending on which search engine you use, but this is the most common form) you'll get a much more focused set of search results.

The missing links

Web administrators use a file called robots.txt to tell search engines what pages in the site *not* to index. That means, of course, you can use that same robots.txt file to find some of the cute stuff that's hiding in a particular site. You may find some of the pages are password protected or otherwise off limits, but you can nevertheless enjoy some interesting browsing.

To get a look at robots.txt, type the address *www.sitename.com/robots.txt* (substituting the correct URL for a particular site). You can then try appending the listed folders to the site's main URL.

Security

Backing up bookmarks, addresses and downloads

If you've ever had to format your hard disk drive, you'll know the process: you first trudge through all your folders, checking for data and other files you need to backup. Once you've made your backup, you proceed with the format, reinstall Windows and your applications, and then copy back your data.

It's all too easy in this process to forget to backup your Internet goodies: your favourites or bookmarks, your e-mail address book and mailbox, and program files you've downloaded. So, next time before you reformat — in fact, you can do this with any regular backups you make — make sure you copy your bookmarks and e-mail files.

If you use Internet Explorer, backup the \WINDOWS\FAVORITES folder and locate the \MAIL sub-folder (if you're using Outlook Express). The Outlook Express address book can be particularly hard to locate: it's usually a file called UserMPS.wab in the \WINDOWS\APPLICATION DATA\MICROSOFT\ADDRESS BOOK folder. If you can't find that file, look for another WAB (Windows Address Book) file.



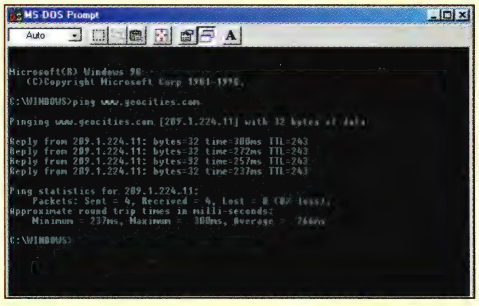
If you use Communicator, you can grab the file bookmark.htm from the \PROGRAM FILES\NETSCAPE\USERS*YOURNAME* folder. You'll also find your e-mail files stored in a sub-folder there, too.

For Microsoft Exchange, you'll usually find the address book (a PAB file) and mail inbox (a PST file) stored in the \EXCHANGE folder.

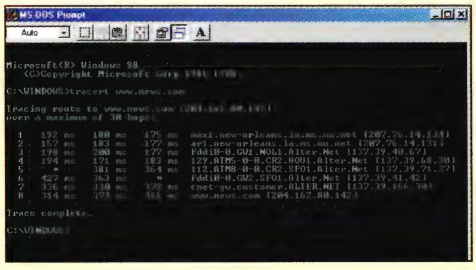
Losing all your downloads can be particularly annoying, especially if you've gathered together a collection of Windows upgrades and browser add-ons over time. To ensure you don't have to re-download all these files — and providing you have the necessary disk space, of course — create a separate \DOWNLOADS folder and place a shortcut to it on your Desktop. Then,

Good ol' DOS utilities

It's easy to forget that DOS is still lurking behind Windows 95. But there are a few DOS utilities that can provide fascinating information about your Internet connections. Try these:



ping: Use the ping command to find out if a site's server is down or responding very slowly. Connect to the Internet and then open a DOS window and type *ping www.sitename.com* (substituting the correct URL in place of *www.sitename.com*). If the server is down or very slow, you'll receive a *Request Timed Out* message. Otherwise, you'll see a series of numbers showing how long it took for the server to respond to your command.



tracert: This is the trace route command, and that's just what it does — it traces the route you take to access a particular server. The tracert command will give you a listing of all the servers you pass through on your way to your final destination (up to a maximum of 30 hops — if your route is longer than that, you're likely to give up waiting for the connection), and the time it takes for each segment of the journey. You use tracert in the same way as you use ping:

1. Connect to the Internet.
2. Open a DOS window.
3. Type *tracert www.sitename.com*, substituting the correct URL in the command.

How to handle Internet error messages

If you've ever stumbled over cryptic browser messages such as *400: Bad request* or *404: Not found*, you may appreciate some of the hostility that is directed towards Unix, the operating system upon which most of the World Wide Web is built.

Mostly, this lack of user friendliness doesn't matter, as it remains hidden from the average Internet user. But if you come face to face with any of those not-so-rare error messages, you're going to need some Unix-to-human translation to understand what's gone wrong.

● ***400: Bad request*** The address is somehow incorrect. The URL may not exist or you may not have authority to access the document on the server.

What to do: Check that you typed the URL correctly. Remember that Internet addresses are *case sensitive*, so www.pagopago.com/Holidays is not the same as www.pagopago.com/holidays. If you're not used to typing URLs, it's very easy to leave out the correct punctuation or to substitute a slosh (\) for a slash (/). PCs are very finicky about this stuff.

If you're trying an address you found elsewhere — perhaps in a magazine or on a Web site — it's possible that the original author got it wrong. You might want to check the capitalisation or try just the first part of the address. For instance, if you can't get to www.pagopago.com/Holidays, try www.pagopago.com by itself, and then see if you can manually navigate to the Holidays page.

● ***401: Unauthorised*** You're treading on restricted ground. The page you've tried to access is only available to people authorised by the host or those with the correct password. Sites can also restrict access to those people who are connecting from a particular domain: for instance, you might only be able to access a site if you connect via a .edu or .gov domain or via a particular country domain.

What to do: If you know you should have access to the site, check the spelling of your password, including the case.

● ***403: Forbidden*** This is very like 401. The page you're trying to view is password protected or restricted in some other way.

What to do: If you have the password for the site, check the spelling. If you still can't get in, you may need to e-mail the site's Webmaster.

● ***404: Not found*** The particular page you're looking for can't be found on the server. It may be that the page no longer exists (remember, the Web is a very volatile place and no page lives forever) or that it's been moved to another location or renamed.

What to do: Once again, check the spelling of the URL. You can also try going up one or more levels and seeing if you can locate the page that way. For instance, if you're looking for www.microsoft.com/ie/IE40/security.asp and can't seem to find it, try www.microsoft.com/ie/IE40 and, if that doesn't help, try www.microsoft.com/ie and finally www.microsoft.com. Once you manage to load a page, you can then try navigating your way to the page or using the site's search facility, if it has one, to locate the page you want.

● ***502: Service temporarily overloaded*** This one's fairly self evident: so many people are accessing the server that it can't handle the load.

What to do: Try again later. If it's a very high-traffic site, try accessing it at a time when most people are likely to be asleep. If it's a US-based site, this is pretty easy to accomplish.

● ***503: Service unavailable*** This is a "temporarily out of order" sign, and it's sometimes reported as *Gateway timeout*. It means either the server that hosts the site is currently not working or is unavailable, your ISP's server is down, or your own system or company Internet gateway (if you're on a LAN) is not working.

What to do: Wait a minute and try again. If you get the message for a lengthy period or with every attempt to connect to any site, check that your PC and LAN connections are functioning, and then check with your ISP or the remote site. This may entail a phone call to their tech support line.

● ***Bad file request*** You've requested a page that contains a form with a feature your browser can't support.

What to do: Let the Webmaster know the form is unusable.

● ***500: Internal Error*** There's something wrong at the Web site itself. As their server is not functioning correctly, it's unable to provide you with the requested Web page.

What to do: Contact the site's Webmaster or administrator, or try again later in the hope that they have noticed the problem and fixed it themselves.

● ***Connection refused by host*** Like the Forbidden and Unauthorised messages, this one usually means you've tried to access a password-protected site or one that's restricted to users from particular domains.

What to do: If you have the password, check that you typed it correctly and try again. If it still won't work, contact the Webmaster.

● ***Helper application not found*** or ***Viewer not found*** Most browsers require additional

each time you install a download, right-click and drag the downloaded file to the \DOWNLOADS folder and choose 'Move Here' from the pop-up menu.

Browse anonymously

What with cookies, security leaks and smart scripting, you never quite know how much information is being gathered about *you* while you're busily gathering your own information on the Net.

If you'd like to make it harder for people to track you on the Internet, you can use a *proxy server* which will keep your identity hidden from cookies and other site snooping code. Just set your start/homepage to www.iproxy.com. You can read all about it at www.iproxy.com/faq.html

Browsing performance

Multiple windows

Your browser may have to wait for a page to download, but you don't. Try opening two or more browser windows. It won't degrade performance much and, often enough, will increase your browsing efficiency. You can read one page in one window while downloading another page or even starting a file transfer in a second window. If you find a link you want to check out on the current page you're reading, drag the link into the second browser window and let it load there while you continue to read. If you want to keep track of what's happening in both windows simultaneously, minimise all other windows except your browser windows and then right-click the time in the Taskbar and choose Tile Windows Vertically.

Learn the rhythm

programs to 'view' files such as sound clips, video, 3D VRML pages, ZIP (compressed) files, spreadsheets and so on.

What to do: The latest versions of the major browsers usually offer to install the required 'viewer' or 'helper' program automatically. If you want to view the file, click OK to install the program and follow the prompts. If your browser doesn't prompt you for automatic installation, you'll usually find the error message provides information about the type of file that can't be viewed. Look for a reference to graphic, VRML, audio and so on. Most sites will provide a link to another site where you can download a viewer. Alternatively, check out PC User's Net Sites/Plug-ins listing (at www.pcuser.com.au) or try out Netscape's extensive list of plug-ins at http://home.netscape.com/comprod/products/navigator/version_2.0/plugins/index.html and its guide to configuring helper applications at http://home.netscape.com/assist/helper_apps/index.html

● ***Failed DNS lookup*** You've typed a URL that can't be converted into a valid Internet address.

What to do: Check that you typed the URL correctly. If you did, wait a few seconds and try again.

● ***File contains no data*** You've connected to a server that doesn't have any Web documents on it.

What to do: Try the URL once more. If you still get the same message, try again later: it may be that you've stumbled onto the site just as it's being updated.

● ***Host unavailable*** The site's server is currently down.

What to do: Try again a few times. If you still can't get in, the site may be down for maintenance. Try again later.

● ***Host unknown*** It could be that the site's server is down (as with the previous message) or that your modem lost the connection.

What to do: First try re-accessing the site by hitting the Reload button. Make sure you've typed the URL correctly and that you're still online.

● ***Network connection was refused by the server*** This usually means you've come across an overworked server that can't handle any more users. This is the message you get if the server hasn't been set up to display the more informative "Service temporarily overloaded" message.

What to do: Try again. If you still don't get on, be patient and try again later.

● ***NNTP server error*** This is a Usenet newsgroup error message. You'll come across it when you're trying to join a newsgroup but can't get access.

What to do: First, make sure you typed the newsgroup address correctly. If you did, try again later. If you still can't get on, it may be that your ISP doesn't provide access to that particular newsgroup — you'll need to contact your ISP to find out and, perhaps, complain about its absence.

● ***Permission denied*** This is an FTP message which you'll see if you try to upload a file to an FTP site and the site administrator doesn't want you to. You may also see it if you try to download a file using the wrong syntax or simply when the site is too busy to handle an upload.

What to do: Check that you're using the correct syntax. If so, try again later. If you still can't upload the file, contact the site's administrator.

● ***Too many connections — try again later*** You're trying to access a site that's already overwhelmed with visitors.

What to do: Try again a few times and, if you still can't get in, try again later.

● ***Too many users*** This is the FTP equivalent of the 'Too many connections' message. FTP sites allow a certain number of anonymous connections at any one time. If you try to log on when that limit is reached, you'll receive this message.

What to do: Keep on trying. Remember, some of the really big download sites, such as Netscape and Tucows, have mirror sites elsewhere which make the same files available. If you are locked out of the main site by heavy traffic, see if you can find a mirror site to use.

● ***Unable to locate host*** This is similar to the Host unknown message. It means the site's server is unavailable at the moment, or that you've lost the modem connection.

What to do: Check the spelling of the URL and click Reload to see if you can get through. If not, make sure you're online. You may need to wait and try later.

● ***Unable to locate the server*** The particular server where the site is located cannot be found — either it no longer exists or you've got the URL wrong.

What to do: Check your spelling.

● ***You can't log on as an anonymous user*** This is a message from an FTP site. Either the site doesn't provide anonymous access, or it's reached its limit for anonymous users.

What to do: Try again later. If you're using your browser to access the FTP site, make sure you've configured it correctly: most FTP sites require an ID of *anonymous* and your e-mail address as the password.

Connections on the Internet vary second by second. You can try a site one minute and find it unavailable, then 30 seconds later you can get through. Or you can connect to a site and find it infuriatingly slow, but try again five minutes later and things flow beautifully. The trick is knowing whether it's worthwhile hitting the reload button a couple of times, or whether you've hit a very heavy traffic flow and you should try later.

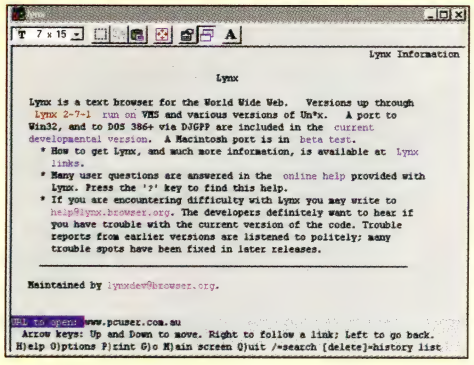
There are no hard and fast rules for assessing this. In fact, a lot of it is done by feel. The crucial tools that will help you decide whether a connection is merely slow or is likely to time out are your modem indicator lights, in particular the receive data (RD) and send data (SD) lights. By watching these lights frequently while you're online, you can become adept at working out how your connection is proceeding. There's a typical rhythm to a good connection that you'll become accustomed to. Even sluggish connections have their own rhythm — with elongated pauses — which will let you know that if you just hang on, the page will load.

The absence of any activity in the SD and RD indicators for anything more than about 10 seconds, however, almost always indicates a connection that's not proceeding. The exception is when you've filled in a form or accessed a site with a database, and you're now waiting for the site to acknowledge receipt of your form or look something up in its database.

With an external modem, position it so you can see the lights while you're surfing. If you have an internal modem, or would like an even easier visual cue, in Windows 95 you can display a modem status indicator in your Taskbar which displays the SD and RD activity. To do so:

1. Open My Computer and then

Pure text browsing



While you can turn graphics and sound downloading on or off in Navigator and Internet Explorer, nothing quite beats the performance of using a completely text-based browser.

For lightning fast, if rather boring, excursions on the Net, try a browser like Lynx. Versions for Windows 95 and Windows NT or 386 (or better) DOS-based machines are available from www.fdisk.com/doslynx/lynxport.htm. You can get more information about Lynx at http://lynx.browser.org

Dial-Up Networking.

2. In Dial-Up Networking, highlight the dial-up connection you use to connect to the Internet (don't open it, just highlight it).

3. Open the Connections Menu in the Dial-Up Networking folder and choose Settings.

4. Place a checkmark beside the option to Show An Icon On Taskbar After Connected.

Click OK.

If you watch the modem indicators over a period of time, you'll find you develop a good sense about your connections. You'll get additional information by watching the status indicator on your browser's status line. If a connection seems slow, click your browser's Stop button and then hit Reload to see if you can speed things up. If there's still no response, it may be worth going elsewhere and checking back later.

Go non-graphical

Most of the time, it's the high-bandwidth features of Web pages, such as graphics, sound, video and so on, that make them so enjoyable. But when your object is to find information rather than to surf, those whiz-bang features can obstruct rather than enhance your Web experience.

If you're searching for text-based material and you want to maximise your efficiency, turn off the graphics and sound features in your browser. In Navigator you'll find the controls in the Edit Menu, Preferences option. In IE4, open the View Menu, Internet Options, and then click the Advanced tab. Scroll down the list until you find Multimedia, and you'll find settings for sound, graphics, animation and video.

DOS browsing

You don't have to have Windows on your PC to be able to browse the Internet. You can browse the Net even on an old 8086 machine, if you've managed to keep one running as long as this.

If you'd like to browse the Net from DOS, there's a great page of links to DOS browser downloads at www.fdisk.com/doslynx/. This page includes links to both graphical and non-graphical browsers, plus other DOS gems including e-mail and digital security programs.

FTP

Download locally

The most popular file download sites can get choked with traffic. Make sure you try mirror sites — sites that contain an exact copy of the contents of a major site. In particular, using Australian mirror sites will often help you avoid delays and international congestion.

If the Australian sites are slow, use a site that's in a 'dead' time zone. You'll usually find around 2am to 5am local time is a good time to access files anywhere on the globe.

E-mail

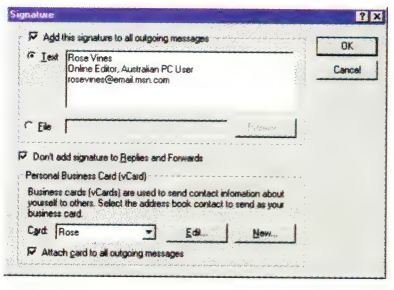
Exchanging vCards

Many people insert a 'signature' at the end of each e-mail message they send. This may simply be their name and title, or it may include a graphic of their signature, a pithy quotation, and some ASCII art ('graphics' created from the standard set of keyboard characters). Netscape Communicator and Internet Explorer 4.0 (as well as some other e-mail products) provide a neater option in the form of 'vCards'.

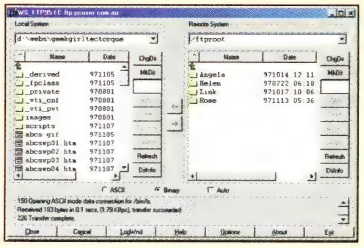
The vCard is the virtual equivalent of a business card. You can include all sorts of information on your vCard: your business contact details, home details, comments, list of digital IDs, and so on.

With Communicator, you can attach a vCard via the Attachments tab in the New Message window.

You can always create both a signature file and a vCard, and use either or both depending on the individual message.



FTP don't HTTP



Browsers these days are able to function as basic FTP programs as well. You simply type an FTP address in your browser's address box and away you go. Pay attention to the adjective *basic*. Your Web browser is a very poor substitute for a good FTP program. Not only will an FTP program, such as CuteFTP or WS_FTP, provide many more options and let you access sites that might be closed to your browser, but they are also far more efficient at downloading files. Browsers don't always maintain a constant connection to a site; an FTP program will, making your download faster and less prone to dropping out.

Modem tips

What you need
Windows 3.1 or later, 14,400bps or faster modem, SLIP/PPP Internet connection

User Level
Easy — Expert

Do you have trouble keeping a stable connection to the Net? Link Harris provides solutions.

Phone phantoms

If your modem shares the line with a voice phone, the double duty could mean double trouble for your data calls. Be sure to flush out these phantoms before you go online:

Call waiting

The alert that 'Call Waiting' sends, letting you know another caller wants to get through, could disconnect your modem. You can put Call Waiting on hold by dialling #43# before you go online, and reactivate it afterwards with *43#. For both cases, wait for the 'busy' tone before hanging up.

In Telix for DOS, you can automatically disable Call Waiting by adding DT#43# just before the ^M at the end of your modem initialisation string (press Alt+O, M, A to edit the string). This modification makes the modem go off the hook and dial #43# after it's initialised when Telix starts. Provided your modem can detect and report a 'busy' tone (enabled for most modems with either X3 or X4 in the active profile), it automatically hangs up and returns to command mode following Telstra's recorded message.

Unfortunately, there's no corresponding way to automatically reactivate Call Waiting when you quit Telix. However, you can create a macro to do the job, as follows:

Step 1: Press Alt+K and select Regular, Display to see what keys have been assigned to macros.

Step 2: Select Edit and press Alt+1 (or whatever key you want to use for running the macro).

Step 3: Type ATDT*43#^M (^M has the same effect as pressing Enter).

Step 4: Be sure to select Save before choosing Exit.

To reactivate Call Waiting after you're offline, press Alt+1 and wait for the modem to hang up before pressing Alt+X to quit Telix. These same concepts can be adapted for most other communications programs.

Power grab

A modem connection that regularly gets noisy — possibly even disconnecting — after being online for 10 to 20 minutes is probably caused by your telephone handset grabbing phone power to maintain its memory of stored numbers. Touchfone 200s manufactured before the 26th week of 1990 (26/90 stamped on the underside) were notorious for this. If unplugging the handset before you go online solves the problem, you've found a quick fix. For the long haul, replace your phone with a later model.

Fine-tuning your phone line

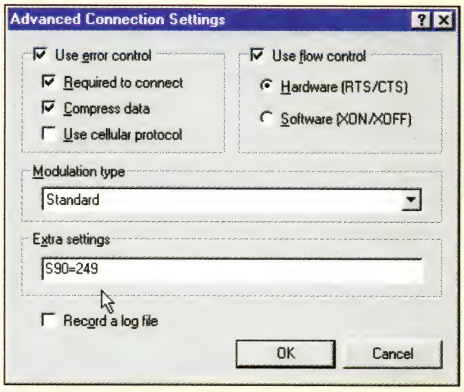
Run at top speed

A wonky phone line can cripple your communications sessions. These are the points to check if you suffer from speed-challenged online sessions:

1. Pair gain. If your 33.6Kbps modem is struggling to connect at 9600bps, it could be because your phone line is on a pair gain system. In its simplest form, this lets Telstra run two or four phone services on a single cable, with a corresponding reduction in bandwidth (and modem top speed). With two sharing services, each has half the normal bandwidth, dropping to one-quarter each with four services. (Telstra also uses more elaborate sharing systems, but these don't cause the same problems with modems.) If you're suffering a major speed shortfall, call Telstra Repairs and Faults on 1100 and ask whether you're on a pair gain system. If you are, explain that your high-speed modem can't cope, and ask to be put on a single line.

2. Single line. If you're not pair-gained, ask to have a technician check the line by running what's called a frequency response — from your end, not from the exchange. If the frequency response isn't up to scratch, enquire about loading coils on your line. Your phone line should have loading coils every 1.8km if you're more than eight to 10km from the local exchange. However, if you're closer than 8km, loading coils on your line can slow your modem down, and should be

Unlocking a lifestyle

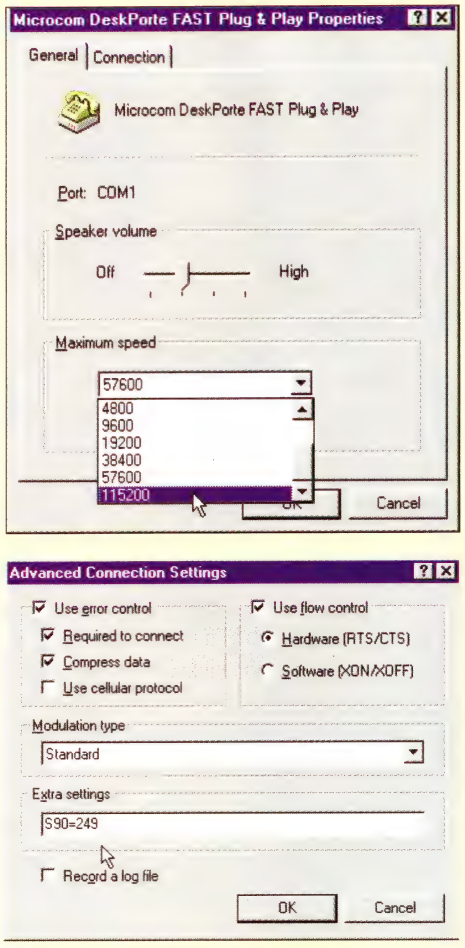


If your Motorola Lifestyle modem locks up after a few minutes when connected to a Hayes Optima, try adding S90=249 to the Lifestyle's initialisation string. In Windows 95 or NT4, select Settings, Control Panel from the Start menu and double-click Modems. Then select Properties from the General tab and Advanced from the Connection tab. Type S90=249 in the Extra settings field — this is sent to your modem after the initialisation string — and click OK.

Speed ain't speed

Thanks to current error correction and data compression, modern modems can move data from your PC at a faster rate than their speed over the phone line. Just how much faster depends on what's being transmitted. Where there's a lot of redundancy, as with a graphics file, V.42bis data compression can quadruple your throughput.

To lock onto this bit blitz, you need to have your PC's port speed (sometimes called Baud Rate) four times higher than the modem's line speed. For a 28,800bps modem, this translates to 115,200bps — which you specify in your communications software for DOS or Windows 3.1x. In Windows 95 or NT4, select Settings, Control Panel from the Start menu, double-click Modems and select Properties from the General tab. Then select the port speed you want from the drop-down Maximum speed list on the next General tab. Before clicking OK, check the Advanced settings from the Connection tab to be sure both Use Error Control and Compress Data are checked (see screenshot with Unlocking a Lifestyle)



removed. Finally, verify that the hybrid equaliser at the exchange has been tuned for a) your distance from the exchange, b) the size of the phone cable between your house and the exchange and c) whether the line is loaded.

The art of UARTs

16550 UART

If your port speed is above 9600bps and CRC errors plague your downloads, your PC probably needs a UART transplant. A UART, which stands for universal asynchronous receiver/transmitter, controls the data flow through your serial port. If you're running DOS or Windows 3.1x, type MSD at the DOS prompt and check the COM Ports screen. If the modem's port doesn't have a 16550 UART, either replace the existing chip (if it's mounted in a socket, not soldered onto the board) or install a high-speed serial card.

Windows 3.1 comms driver

A 16550 UART accumulates data in its 16-byte transmit and receive buffers, and releases the data at a preset trigger level. The communications driver comm.drv supplied with Windows 3.1x triggers the receive buffer when data reaches byte 14 — too close to the limit for many PCs. If downloads in Windows are still falling over after you've upgraded to a 16550, try the freeware replacement cybercom.drv, which sets the trigger level at byte 8 for both transmit and receive buffers. Put the new driver in your \WINDOWS\SYSTEM directory and open system.ini in a text editor, such as Notepad. In the [boot] section, replace the line:

comm.drv=comm.drv

with the two lines:

;comm.drv=comm.drv
comm.drv=cybercom.drv

Deactivating the line comm.drv=comm.drv by putting ; at the beginning, rather than simply deleting the line, makes it easy to change back if you need to. After you save the modified system.ini, quit and restart Windows to put cybercom.drv to work.

You can pick up the driver update at http://www.netcomm.com.au/services/netcomm_ftp_site_html/windows31x_drv.html or ftp://ftp.netcomm.com.au/pub/windows_3.1x_drivers/cybercom.exe. Stick with the original comm.drv however, if you're using Windows for Workgroups, which is more helpful comms-wise than Windows 3.1x.

FIFO furphy

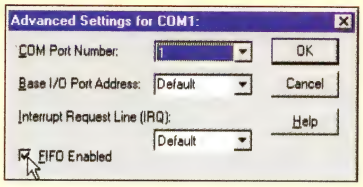
Contrary to popular folklore, Windows 3.1x and Windows for Workgroups 3.11 can automatically take advantage of the 16550 UART's 16-byte first-in/first-out (FIFO) buffer. Since COMxFIFO=TRUE (x is the number of the COM port your modem

Win 3.1x comms driver

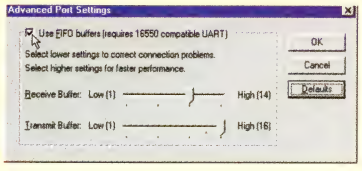
Improved communications driver cybercom.drv for Windows 3.1x is on this month's CD-ROM. See page 3 for details.

BBS tips

Win 95/NT4 FIFO control



To check the state of your UART in NT4, select Settings, Control Panel from the Start menu, and double-click Ports. Select the port your modem is connected to (double-click Modems in Control Panel if you're unsure), and select Settings, Advanced. If you want the 16550 to use its 16-byte buffers, be sure FIFO Enabled is checked.



From Windows 95, select Settings, Control Panel from the Start menu, and double-click Modems. Then select Properties from the General tab, Port Settings from the Connection tab and be sure 'Use FIFO Buffers' is checked. Here you can also fine-tune the trigger level of the UART's transmit and receive buffers.

uses) is the default for the system.ini file, it's not necessary to add that line to the [386Enh] section. However, some software disables the UART's buffer with the line COMxFIFO=FALSE, OFF, NO or 0 (zero) — effectively turning a 16550 into the older 16450, which only has 1-byte buffers. If your system.ini file has such a line, adding ; at the beginning will resurrect the 16550. If you need to modify system.ini, be sure to quit and restart Windows to activate any changes.

What you need — 14,400bps or faster modem, SLIP/PPP Internet connection

User Level — Easy … Expert

Link Harris keeps your BBS account secure, and provides updates and a list of Australian BBS and Net sources.

Bullet-proof password

If you want to keep others from using your BBS account, you need a secure password. Avoid choosing anything that's easy to guess, such as the name of the BBS or its sysop, your name or that of your partner or pet. Also shy away from obvious numbers, such as the BBS phone number or your own. In fact, if you're serious about security, don't even consider a string of numbers for your password, because that's easy to crack. Determined hackers can also easily check if you've used any word that appears in a dictionary — so what's left that's not so obscure you'll never remember it yourself?

Pick a short phrase that contains at least one number (or a word that sounds like a number, such as "to" or "too"). Make your password from the first letter of each word, with numbers and sound-alikes replaced by integers. "I have four dogs to feed every day" gives the password ih4d2fed, for example. The number of words you can have in the phrase depends on the length of the password the BBS software will accept, but six to 10 words is usually a good choice.

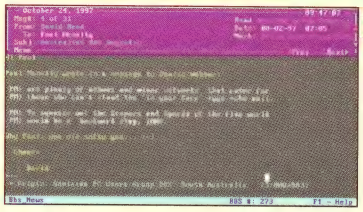
Graphical multitasker updates

These two freeware Windows communications programs give you multitasked BBS features, a graphical interface and cool sounds — and both have been updated since we last wrote about them.

PowerAccess (reviewed November '97, page 119): If you already have PowerAccess installed, just copy the updated powracc.exe over the original file in your C:\XPRESS directory. This new update goes beyond the version 2.0 provided by the updated powracc.exe on November's CD-ROM, and gives you 256 colours and animated graphics. To install the complete terminal software (minus any updates) double-click on xpress200.exe, which you can download from the opening screen of Xpress! Net BBS on (02) 9482 4822 or from ftp://ftp.xpress.net.au/. The most recent powracc.exe update is available from the same FTP site or from file area 1 on the BBS.

Excalibur (reviewed August '96, page 102): In addition to eliminating some bugs, Excalibur version 1.5 supports transparent images, a feature that lets you view some exciting visual effects. Double-clicking on excaltrm.exe gives the choice of creating a new installation or updating an existing one. You can pick up the file from http://www.excalbbs.com/, ftp://ftp.excalbbs.com/public/terminal/excaltrm.exe

Off-topic okay



Public echomail conferences usually have a theme, so it's bad form to post messages on an unrelated topic. However, you can start a private conversation without disrupting the conference by sending a private Netmail message. To send a message to the person named in the From field in a message header, use the FidoNet address given at the bottom of the message (David Read at 3:800/883 for the message shown in the screenshot). Be sure to post the message in the Netmail area on your BBS, not in the echomail conference area.

Australian Excalibur BBSs

New South Wales

Alchemy Online (02) 9567 7166
Deep Thought (02) 6555 2105
Griffins Byte (02) 6551 5692
Illumination (02) 9564 0393
Pacific Dreams (02) 6555 2010
Spectrum BBS (02) 6553 8179
SydWeb (02) 9960 5211

Queensland

Blazin Saddles (07) 4926 5941
Electronic Waves BBS (07) 4978 4712
Orion-Online (07) 4959 8800
Overdrive (07) 4124 5491
Pendragon BBS (07) 3201 5655
The Academic One (07) 3282 9922
Wizz Cards BBS (07) 4774 7204
The Academic One (07) 3282 9922

Victoria

ComputeramA (03) 9887 2083
Industry (03) 5331 5647
Leisure Time Entertainment (03) 9887 3401
Skanr Vision (03) 9555 5531
The Friendly Giant BBS (03) 5332 9577

Thanks to Mark Blake, sysop of Deep Thought BBS, for help in compiling this list. E-mail him at joeblake@ozemail.com.au to add your Excalibur BBS or receive list updates.

or from the opening screen of any Excalibur BBS.

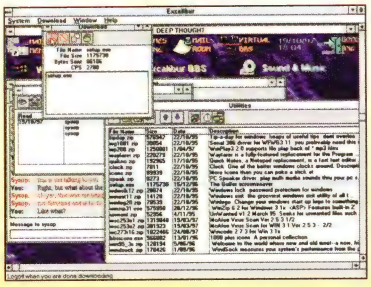
Who you gonna call?

If you're looking for new online worlds to explore, don't go past the logoff screen of your favourite BBS. Many sysops sign off with a list of other cool boards in your area. It's also worth checking the Australian BBS Registry, which lists details of most Australian BBSs, catalogued by state and territory.

Software and BBS Registry sources

The files to install and update PowerAccess and Excalibur terminal software for Windows, an abridged list of Australian Excalibur BBSs, and a list of BBS and Net sources for the Australian BBS Registry, are on this month's CD-ROM. See page 3 for details.

Simultaneous features



Excalibur BBSs such as Deep Thought BBS on (02) 6555 2105 let you simultaneously chat, read mail, download a file and more.

Windows 3.1 comms driver

If your downloads from Windows 3.1x are laced with CRC errors, your 16550 UART could be crying for a relief driver. You can download cybercom.drv, described in 'Modem tips' on page 89, from NetComm Online BBS on (02) 9878 3755. Look for cybercom.exe in file area 5 (Windows 3.1x files), which is also available on this month's CD-ROM.

NetComm online speed secrets

New callers to the NetComm Online BBS can shrink STD charges with these time-saving tricks.

1. Skip the 'Register Online and Upgrade Your Access' option displayed in the Bulletin menu. First-time callers get plenty of access for downloading cybercom.exe without registering.

2. When you get to the File menu, tap S (Search for File), L (List file areas), 5 (Windows 3.1x Files) and S (Stop). Then press Enter (Start search), type cybercom.exe and press Enter. Finally, tap N (No sort) and D (Download) when the BBS displays the filename.

Six sysops' suggestions for new users

1. Open a capture file before going online — it's a useful post-mortem partner for reviewing your online odyssey.

2. Write down your password — most modern BBS software encrypts users' passwords, so even the sysop can't bail you out if you forget yours.

3. Choose ANSI colour and graphics, if your communications software supports this — although the displays are slower, ANSI menus are easier to read.

4. Don't opt for hotkeys — you could end up bogged in the bowels of the BBS without realising how it happened or what to do next.

5. Read the bulletins and online help — these answer the most common questions.

6. Always use Zmodem for file uploads and downloads, and specify this as your default protocol. Warning: Check the version number if the board is running Spitfire software. With versions before 3.4, the only way to have Zmodem as an option is to *not* choose a default file transfer protocol.

Stop the scrolling

To put the brakes on a runaway continuous display, you need to know which BBS software is on the loose. To stop Wildcat! press Spacebar, but for Maximus press Ctrl+C — and for TBBS tap S to stop or P to pause the display. ❑

Sources for Australian BBS Registry

Internet

- http://www.gil.com.au/~jamesc
- ftp://203.1.72.234/cd-gen/registry/

State coordinators

- **ACT:** The InterACTive BBS (02) 6253 4933
- **New South Wales:** Starfleet Academy BBS (02) 9580 6339
- **Victoria:** Death . . . by chocolate (03) 9511 4091
- **Queensland:** Soft-Tech (07) 3869 2666
- **South Australia:** Archival Retrievalist (08) 8341 5156
- **Western Australia:** 1990 Multiline (08) 9370 3333
- **Tasmania:** StringLine BBS (03) 6243 8604

National coordinator

- **Queensland:** Galaxy GateWay (07) 5426 8557

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Question time!

Readers' questions

Is it a plot, or just stupidity?

Q: Why don't magazines ever tell users the whole truth? Your November '97 issue was full of great plugs for IE4, but no mention was made of the catastrophic results it could have on a user's PC, especially if you are already running a browser when it is installed. In the real PC world, IE4 has attained the title of the 'Kiss of Death' in a very short time since its release, and I personally wouldn't touch it with a 40-foot pole.

It's fine and dandy if you buy a PC with IE4 already installed, but if you already have a browser and install IE4 to see what it's like from the hundreds of demo discs it is available on from magazine covers like yours, you'll find out that it not only disables your other browser but takes over your whole system and virtually trashes it to the extent that you have to re-install everything, including your operating system.

Microsoft, of course, has no information available regarding this 'bug' on its US or Australian sites. Perhaps it is there, buried deep enough not to be found until next century.

More and more unwary users are installing IE4 thanks to Microsoft's huge plug worldwide regarding IE's chunk of the share market. Unwary users think, "big share, must be good if everyone's using it".

My home town isn't very big, and nine people I know have already learnt the hard way about the Kiss of Death (aka IE4). When I said I knew about it, they asked why magazines and Microsoft didn't warn people about it.

So why don't you tell people the truth? There's actually an MS product out there that truly stinks. And what's worse, you are making it sound like the greatest thing since sliced bread.

Come on *PC User*, tell them the truth!

PS. If you're thinking about giving me $50, forget it. I just want the whole truth known. Give it to the Salvos or another needy charity.

Johnno West
Wodonga, Vic

A: *Because PC systems are so complicated, can be loaded with such a huge variety of software and can be configured in an infinity of ways, it is extra important not to jump to conclusions. For example, my system here in the office failed to boot after I updated Thunderbyte to 8.03a (on the cover CD), but on investigating memory I found that it actually was Norton System Doctor falling over — because I had coincidentally altered the booting order so that it tried to load before Lotus Notes. Setting NSD to load last fixed the problem. "The system failed after I installed X, therefore X is a bad product" may be right but may just as easily be wrong — especially as many home systems are already running on the ragged edge with setup errors and leftovers from uninstalled programs clogging memory.*

As for Internet Explorer 4.0, I have personally used the beta (which I found flaky) and the release version. I installed the release version both ways — with and without the desktop enhancements — on one PC that had IE3 and one that had Netscape 3 already loaded. IE3 was obviously upgraded, as it should be, and Netscape remained useable, again as it should be. Netscape was not disabled and it was still the user's choice which to set as the primary browser. I subsequently upgraded to Netscape Navigator 4.0 on the same

Microsoft site search



This is the start of 27 hits on 'active desktop' when I selected 'Support' and 'Search' and 'Product: Internet Explorer 4.0' at the Microsoft site. The information is not buried, you just have to be systematic in your searching because there's a lot of it . . .

How to ask



PC User's technical editor, Jan Wikström, may be able to answer your queries in print.

Be sure to include your name and address and as much detail of your system as possible to assist in the solution; you should include an MSD report or a System Summary. MSD (Microsoft Diagnostics) is a DOS utility and part of DOS and Windows 3.11 and the System Summary is generated by the Print button in Windows 95's Control Panel, System, Device Manager. There's a trick to the System Summary: the file it creates is a coded printer file. If you install the default Generic/Text Only printer, the file will be plain ASCII text.

Please note that personal technical support cannot be provided, and not all queries may be answered.

If your problem is urgent, you should contact the supplier or retailer of the offending product.

Jan Wikström

Post details of your problem to Jan Wikström, PC User, GPO Box 4088, Sydney 1028; fax to (02) 9267 4909; or e-mail to janw@acp.com.au



$50 for your tips!

Discovered a great tip? Why not share it with other readers and earn some money for the trouble? We're offering readers $50 per tip that we publish. Please keep the tip to less than 250 words (the shorter the better), and screenshots are most welcome in bitmap format (.BMP).

Just e-mail the tip to janw@acp.com.au or post it to Jan Wikström, PC User, GPO Box 4088, Sydney 1028 (please include a printout, an electronic version in ASCII format on a 3.5in floppy disk, and a stamped self-addressed envelope if you want the disk back). Payment will be made within a month of publication.

system, which caused no problems and worked in parallel with IE4 for evaluation. I took it off in the end simply because I personally like IE4 better.

IE4 does change the Associations to HTML files and several graphics formats to make it the default application for those formats. This is a jolly nuisance — but so does Netscape and very nearly all other applications; every vendor wants its product to be the default and never mind what the user wants. The first program whose installer offers options in this area will get my warm commendation — but I'm not holding my breath.

I have not installed the Web authoring and hosting extensions and can't comment on those from my own experience. I also got rid of the active desktop after a brief try, because I don't like it — I want to preserve the difference between local and Web operations; my system is confusing enough already. There are numerous IE4 installations in this building (we have 800+ workstations, most with Internet access) and all the ones I have seen or discussed have been working with only minor glitches.

There certainly are bugs and problems with IE4, but the way to deal with any software malfunction is not to spout abuse but to analyse cause and effect and apply a cure in conjunction with software and hardware vendors. The testing program and user feedback have identified a number of problems and cures; yours may be among them. Have a look at the box 'Internet Explorer 4.0 issues'.

If you can give me some details of your system, its configuration files and what other software you're running — because there are known incompatibilities with software and hardware — I'll have a stab at figuring what has gone wrong. I'll also need some details of what you mean by "takes over the whole system and virtually trashes it". And please don't call yourself and your nine mates "the real PC world" — I did a Metacrawler/Deja News search of the Usenet and Web for "Kiss of Death" and got exactly 60 hits; 38 were movie reviews and not one related to IE4. Oh, and the $50 is for a useful original tip, not for having a whinge.

Don't downdate!

Q: I was just wondering what, if any, changes/updates for the Windows 95 OS need to be run for the Win 95b version?
Mark Bannister
Via Internet

A: *If you mean what I think you mean, the answer is none! That is, Win 95b is a later version than all the updates available for W95. When updates become available (if they ever do), they will be clearly marked "for W95b".*

Some of the PowerToys have also been rolled in, but you can still get some benefit from TweakUI.

Lost mail

Q: I've done something (I don't know what) whereby I can no longer access my Inbox messages, Sent messages etc in Netscape Communicator. I must have inadvertently moved the file/s and now I've apparently 'lost' about six months worth of e-mail.

I haven't deleted the files so they must exist somewhere on my PC but I don't know what the name/s is/are and in which directory those files should 'live'.
Mel Nolan
Via Internet

A: *I assume Communicator uses the same mail modules as Navigator. In that case, the mail files reside in C:\PROGRAM FILES\NETSCAPE\COMMUNICATOR\MAIL. Uncompressed files can be read with Wordpad.*

Toneless

Q: As a student I find the Internet a very good source of information, so I signed up with an Internet service provider. I have a modem I brought back from Hong Kong and my problem is, although I am able to use WinFax, I cannot detect a dial tone. I have checked everything on the computer from the cables to the software. My housemate also has a modem and he has no problem hooking up to the Net. It is possible I haven't set the modem up correctly, so could you please give me some guidelines?
Jonathan Lai
Mount Waverley, Vic

A: *This is likely to be a failing of your modem, which is designed for a different telephone system and is incidentally illegal to use in Australia. The best you can do is set your dial-up networking to ignore the dial tone. It's Dial-up Networking, [your setup], Properties, Configure, Connection and uncheck "Wait for dial tone".*

You might also have a close read of your modem manual; if there is an AT command there to make it detect a dial tone, type that into 'Extra settings' after clicking 'Advanced' in the same dialogue box.

OSR2 reboot nuisance

Q: If you have not shut down Windows properly or had a power cut or a software problem, such as a game causing you to reboot your computer, Windows 95 OSR2 startup will make the computer automatically go into ScanDisk, which is fine until you have the odd bad sector on your hard drive. But then you will find that ScanDisk goes into a full hard disk check taking up to 15 minutes or more depending on your hard disk size, which is most irritating because it always reports no problems; you can abort the full ScanDisk only to find you have to do it next time you boot up your computer — properly or not.

I tried contacting Microsoft, but they only want to charge me for the pleasure

Internet Explorer 4.0 issues

The chief problems with Microsoft's Internet Explorer 4.0 that have been identified so far concern installation and the Active Desktop or ancillaries. The browser itself seems nearly trouble-free, apart from some hardware and driver incompatibility. Much information is already available in the Readme files; do make sure that you read them carefully before installing IE4.

One common problem at the installation end is that if you have previously installed the IE4 beta and uninstalled it before installing the final version as instructed, the uninstaller does not remove the Java folder and some other odds and ends. The result is that you get JavaScript errors on many sites and the browser sometimes 'hesitates' when you click on a bookmark — you have to click it a couple of times to get any action. The cure is to hand-delete the \WINDOWS\JAVA folder as well as \PROGRAM FILES\INTERNET EXPLORER before installing IE4. Personally, if I had an IE3 installation with Java plug-ins, I'd apply the same procedure — just in case.

Incidentally, if you are a TweakUI user and install IE4 with the improved desktop option, it also adds functions to TweakUI — but only if you do the hand-deleting as above.

Also on the installation side, if you use the installation program to add or delete parts of the IE4 suite — as instructed — the IE4 tag can disappear from the Uninstall line-up in Control Panel, Add/Remove Software. I know mine did . . . Microsoft recommends using the installer on the CD to uninstall IE4, and if that doesn't work, clean off the hard disk and reinstall Windows. That seems a little drastic to me — I would try one of the popular 32-bit uninstaller programs first. I used Cybermedia's Uninstaller 4.0 to get rid of a failed IE4 installation (I hadn't read the ie4.txt file on the CD . . . blush!) and clean up the Registry. After removing the folders mentioned above, installing IE4 again went perfectly and it goes like a train. It's still absent from Add/Remove Software, but nobody's perfect!

A fairly severe problem is that RegClean is incompatible with IE4 and can corrupt the registry; it has been withdrawn from the Microsoft download site for this reason. However, according to one user group, it's been found that the actual focus of the problem is the Connection Wizard; if you get rid of that, all is well, they say. The Wizard is also implicated in other compatibility problems.

An unusual matter was reported by a group of German researchers and called the 'Freiburg' text-viewing bug in their honour. It means that a malicious Web site could read a text, HTML, or image file from a user's hard disk — provided that the intruder knows the filename and path. And even if those conditions are met, the site cannot destroy or tamper with any data. While this is not a really big hole in security, Microsoft has issued a patch, available from http://www.microsoft.com/ie/security/. You can also stop such intrusion by using the Security Zones feature.

Speaking of German, it has been reported that different language versions are incompatible; IE4 and W95 has to be the same language. This wouldn't worry most of us here in Australia, however, I'd appreciate reports on the situation from local users of Chinese Windows 95.

Hardware & software compatibility

If you install Office 97 after installing IE4 and then change your mind and uninstall IE4, Office 97 stops working properly. This is because IE4 and Office 97 share a number of files, and when you uninstall IE4, it replaces some with earlier files that it backed up on installation, overwriting files that Office 97 needs. Fortunately, the cure is easy: reinstall Office 97.

There are reports of a noticeable graphics slowdown with IE4. For instance, when you drag any application window around the screen, the action is jerky. This can be avoided by going into any Explorer window and selecting View, Folder Options, View, Visual Settings, then deselecting 'Show window contents while dragging'.

Some users have reported severe slowdowns, and others have reported video-related system errors. Let me stress here that when correctly set up and functioning, IE4 is noticeably faster that IE3, so if it runs

of telling me how to stop Windows running what they call AUTOSCAN. I and probably many others want to stop ScanDisk doing its thing on startup (it didn't do it pre-OSR2 . . .).

And, yes, I tried the shop where I purchased the computer and you guessed it, they don't know what to do.
Matthew
Via Internet

A: *Bad sectors are only found in surface scan mode, which is the 'Thorough' setting. Mind you, if you do have bad sectors, you should be pleased that ScanDisk finds them for you, as the alternative may be a system crash or a loss of important data. If you don't want surface scan, try running ScanDisk from the Start menu and selecting the 'Normal' setting as well as setting up all the other details. You must allow this scan to complete, otherwise the settings won't 'take'.*

Not on speaking terms

Q: I recently deleted MS Internet Explorer 3.02 and installed Netscape Communicator 4.01 as a result of my change in ISPs. I got both pieces of software from your excellent magazine's CD-ROM — thanks! I tried to move the \WINDOWS\FAVORTIES folder (my favourite Web sites folder) to Netscape Bookmarks, but I can't find Netscape's Bookmarks within Netscape's folder or in any other folder on the C: drive. Is this because it is hidden or inaccessible through the Windows Explorer? Can I transfer my Internet Explorer \FAVORITES folder to Netscape's Bookmarks somehow?

To view a short video from Ayrshire Online, it said I had to download QuickTime first (I've watched this particular video in full screen before I changed ISPs and never had to do this). Did I lose QuickTime when I loaded Netscape or is it now unaware that I also have 'Active Movie Control' and 'Media Player' (which is what I may have used to watch the video previously)? I downloaded QuickTime anyway but it took 25 minutes and then wouldn't play properly. Is there a conflict between different programs each trying to play the video?

slowly, there's a problem that needs to be fixed. One point to look at is display drivers; some old ones are not compatible, but if you go to the Web site of your display card maker, chances are they'll have a new IE4-compatible driver available.

Matrox Millennium has been named by numerous users with display trouble. Some have also mentioned that Active-X 5.0 could need reinstalling after IE4.

The HP/Colorado T1000 tape drive with Cheyenne's Colorado Backup software 3.0 is not compatible with the Active Desktop; at the moment, I know of no fix other than leaving the Active Desktop off.

As well as bugs, there's the resource issue: if you install and use all the interface bells and whistles, the load on your system will be severe. If you like the doodads, you'll just have to accept that they need a real hotshot system with at least 32Mb of RAM (MS says 16, but we like to run something else, too). Personally, I run the plain vanilla browser with the enhanced taskbar (love that Quick Launch toolbar) on a modest Pentium 90 with 32Mb of RAM and a Diamond Stealth 2D 2000 card — and it flies.

Even Windows 95 can sag under the weight of IE4 and all its goodies. There have been reports of saved passwords disappearing and failing to be saved again, which Microsoft says is because the W95 networking muscles are getting a serious workout by IE4. The solution, according to one newsgroup, is to go to Control Panel, Network and add the Client for Microsoft Networks, then set the Primary Network Logon to Client for Microsoft Networks, click OK and reboot.

The Intellipoint Wheel Mouse isn't fully implemented and the wheel doesn't work in IE4. This will have to await a new mouse driver.

The answer is on the Web

It's important to remember that many of the bug reports and cures you find on the Web relate to the beta version, and this is often not spelled out. However, if you find something that shows exactly the same symptom as what you have, it's a fair chance that the cure will help you, too. Below are some of the more common items I found on the Web.

Another example of compatibility problems: on a Compaq Presario, the Active Desktop feature in IE4 can conflict with a Compaq-designed shell interface called Home Base, which was installed on thousands of Presarios shipped before July 1997. There's a fix for this, along with a list of Presarios not affected by the bug, at Compaq's Web site.

In a similar vein, the Access Aptiva component of the IBM Aptiva PC does not render properly with IE4. To get an updated version of the Access Aptiva program, you can either go to the IBM homepage at http://www.us.pc.ibm.com/aptiva, or click IBM Update Connector from the Start menu, which automatically downloads the updated components.

Also incompatible is Manage.able's Catch-Up 1.1 (a software updater); the fix is available at their homesite at http://www.manageable.com/cup11.html

Multimedia Access at http://www.mmac.com/johnt/ShellBug.htm has details about difficulties with running certain multithreaded applications when IE4 has Desktop Integration turned on. The story here is Norton Utilities System Genie isn't compatible; there's a fix at http://www.symantec.com/ but if you have NU's Live Update active, this should be done automatically.

Cybermedia's First Aid 98 is incompatible, as is Quarterdeck's CleanSweep (they share critical system files that can't be the same version).

See Ray Wilson's Web site at http://rwilson.simplenet.com/hardware/memory.htm for advice to optimise Windows 95 resources when using IE4. If the advice seems strangely familiar, it's because you've read about the same methods here before, with different numbers . . .

A good source of news and information about IE4 is found at IE Central on http://www.barkers.org/ie/ — and let's not forget Microsoft itself; use the Support tab. The newsgroup microsoft.public.internetexplorer.ie4 is extremely valuable, as long as you remember that the level of expertise varies among the correspondents.

by Jan Wikström

Finally, can you point me to somewhere I can read/view about the attributes of Netscape Communicator as opposed to its rival MS Internet Explorer. Which is best?

Scott S. Grant
Sydney

A: *The way it is with IE and Navigator/Communicator, they overlap in their abilities but not completely, and may use different plug-ins. They also store their bookmarks differently. When you install IE on a system that has a working Netscape installation, it picks up all the bookmarks, but Netscape is not as rude.*

Netscape also lets you export its bookmarks as an HTML file; I have done this on one system and made it the default starting page for IE, giving me effectively a second set of favourites. Netscape's bookmarks are in a file called bookmarks.htm, which you'll find in \NETSCAPE\COMMUNICATOR\.

IE's favourites can't be loaded as bookmarks, because they are ordinary Windows folders with Internet shortcuts — but there's a way to get around your problem, and copying the \WINDOWS\FAVORITES folder to where bookmarks.htm lives is a help. Start Communicator and select Files, Open File; this opens a dialogue box where you'll now see Favourites; set 'file type' to 'all', open this folder and any subfolders, select the favourite you want to visit and off you go.

This is a bit of a procedure to repeat each time, so I suggest that you create a bookmark when you get there — then the favourites you actually use will gradually become bookmarks, and the residue can be deleted after a decent interval.

I can't comment on the QuickTime plug-in problem; the video area is outside my experience.

For information about Communicator, the Netscape home site and help file are the best basic source. There are also many independent sites and newsgroups where you can learn the tricks the book doesn't have. If you float your QuickTime problem in one of the Netscape newsgroups you might find someone who has solved it before. ❑

Bug Patrol

Link Harris, Jan Wikström and Rose Vines bring you a bumper crop of bugs, fixes and workarounds for DOS 6.2, Windows 3.1, Windows 95 and assorted Windows applications.

Hardware

New Pentium bug

Back in 1994, Intel caused itself a major headache by responding slowly and dismissively to the discovery of a bug in its Pentium processor. The company has learnt from its mistakes, and has moved quickly to acknowledge a new Pentium bug recently uncovered.

The *F0 bug*, as it's been dubbed, is not something that you're likely to run across in everyday usage. In fact, it can only be triggered by a program written deliberately to make use of the bug. While that means you don't have to worry about stumbling across it next time you use Quicken to balance your budget, it does mean you could download a program from an untrusted source and discover it mischievously uses the bug. The bug, or 'errata' as Intel likes to call these glitches, affects standard Pentium and Pentium MMX processors. It causes the machine to crash, requiring a cold boot (pressing Ctrl+Alt+Del won't work). Intel is currently working on a workaround. — *RV*

Canon incompatibilities

The Canon BJ-610 and Canon BJC-620 printer drivers may need the parallel port all to themselves, making them incompatible with the Iomega Parallel Zip 100 drive. Canon has updated drivers that fix the problem.

To get an updated driver, go to www.ccsi.canon.com, click on Software Downloads, and accept the disclaimer. Click on Printers, Bubble Jet Printers. Select your operating system and then your printer. — *JW*

Windows 95

Upgrading to 'Windows 97'

Using Windows 95? You probably think you've got the latest version of Windows (aside from Windows NT of course). Maybe not, if you bought your PC before late 1996. At around this time, Microsoft sneaked out a significant upgrade to Windows 95 called OSR2 (OEM Service Release 2). Unfortunately, it's strictly for OEMs (Original Equipment Manufacturers), which means that you can get it only when buying hardware. That doesn't mean that you have to buy a whole computer; some dealers satisfy Microsoft's requirements by selling it with a hard disk or the like.

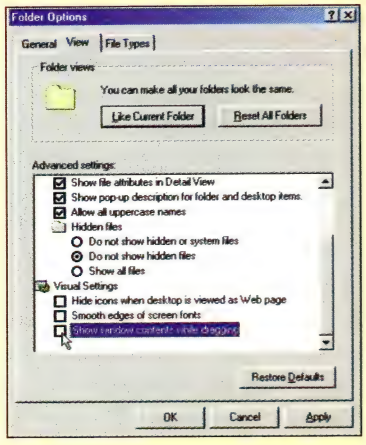
How can you tell if your PC is running OSR2? If ScanDisk is launched automatically when Windows is restarting after an accidental shutdown, then you've got OSR2. OSR2 features many more improvements including the option of using a new file system, called FAT32 (see 'FATter disks' on page 72).

Is it possible to get hold of OSR2 if you don't buy new hardware? Not legally. But you can download many of the OSR2 components, such as bug fixes and minor updates from Microsoft's Web site at www. microsoft.com/windows/pr/winosr2.htm or from this month's PC User Offline CD-ROM, which also includes full details on what improvements are featured in OSR2.

The Windows 95 programming team has also compiled two sets of great utilities for the operating system: PowerToys (available from www.microsoft.com/windows95/info/powertoys.htm), which adds some very handy features to the Win 95 interface, while KernelToys (www.microsoft.com/windows95/info/kerneltoys.htm) offers some useful lower-level system tools. Both are also on this month's PC User Offline CD, but be warned: neither are supported by Microsoft and both can damage the systems of the unwary.

More recently, Microsoft's Internet Explorer 4.0 has added more new fea-

Screen slowdown



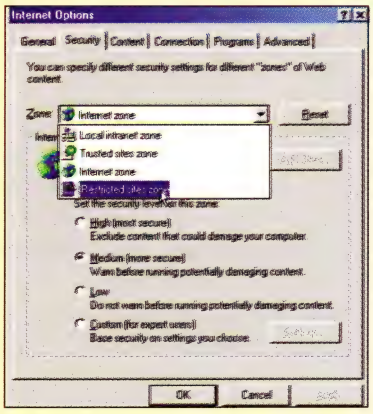
Have you noticed a slowing down on screen since you installed IE4? The program is very demanding on your video resources, especially if you install the Desktop Integration features.

You can regain a lot of speed this way:

Step 1: Open a Windows Explorer window (simply open any folder) and choose Folder Options from the View Menu to open the Folder Options dialogue.

Step 2: In the Folder Options dialogue, click the View tab, scroll down to the Visual Settings entries and deselect 'Show Windows Contents While Dragging'. If you still have problems, make sure you're using the very latest video driver. You should be able to get an update by checking out your video card manufacturer's Web site. — *RV*

IE 4.0 security fixes



Microsoft has produced a fix for the latest bug in one of its browsers. This time it's the new Internet Explorer 4.0 for Windows 95 (other platforms are unaffected) which has sprung a leak.

The so-called 'buffer-overrun' security bug can be dangerous in the hands of Web site authors out to do mischief. In fact, it's rather nifty: IE4 can only handle Web addresses prefixed with the *res://*type of 256 characters or less. If the browser encounters an address greater than 256 characters, it crashes and sends the remaining characters in the address into the computer's memory. An inventive vandal could thus include a link with a long res:// address on their site, with hostile program code from the 257th character onwards in the address. This would crash your browser and send the program code into your computer's memory. The good news is there's already a fix, *resbuff.exe*, available at Microsoft's Internet Explorer security site (www.microsoft.com/ie/security/buffer.htm), and of course we've included it on this month's CD-ROM. This patch also fixes another bug in IE4, known as the Freiburg text issue. This bug enables a Web page author to view — but not alter — the contents of a text, HTML or graphic file on your computer. The person exploiting the bug would need to know the exact name and location of the file on your computer and write their page deliberately to use the bug, so it's not too likely to cause problems. However, installing resbuff.exe fixes this problem completely. In addition, you can use IE4's Security Zones to protect against the Freiburg bug. In fact, if you're concerned about bugs that might work in a similar manner, disabling scripting for unfamiliar sites via the Security Zones will give you general protection. To do this:

Step 1: Open the View Menu in Internet Explorer and choose Internet Options to display the Options dialogue box.

Step 2: Click the Security tab and select the Restricted Web Sites zone from the drop-down list.

Step 3: Select Custom and click the Settings button to display the Settings dialogue box.

Step 4: Scroll down the list to find Active Scripting and click the Disable button, and then click OK to exit from the dialogues.

You can add any sites you don't feel comfortable with to the list of Restricted Sites affected by this setting by clicking the Add Sites button. — *RV*

tures to Windows 95, including the ability to 'browse' your hard disk just like a Web page. Internet Explorer 4.0 is available from www.microsoft.com/ie/ and also from this month's cover disc, along with a tutorial on how to upgrade Windows 95.

Internet Explorer 4.0

Office 97 problems

If you install IE4, then install Office 97 and then try to *uninstall* IE4, you may well find Office 97 stops working. This is because the two programs share many files. When you install IE4, it creates backup copies of all the files it replaces; when you install Office 97 and remove IE4, these old files are copied back, overwriting the Office 97 copies.

While it's a hassle, it's no big deal. Simply reinstall Office 97 after uninstalling IE4. — *RV*

Communicator 4

NT4 hangs Navigator

If you upgrade NT 4.0 Workstation to Service Pack 3, you may find that the latest releases of Netscape Navigator hang your system whenever they encounter a site with Java. The specific symptoms include the NT Task Manager displaying almost 100 per cent CPU usage with Netscape grabbing the lion's share, and Navigator displaying a message "Starting Java" and then hanging.

Microsoft has a hot fix for this problem, plus a full description at http://premium.microsoft.com/support/kb/articles/q168/7/48.asp. Microsoft talks about the problem in reference to IE 3.02, but the problem is the same for Communicator 4. The fix is contained in the getadmin-fix patch mentioned in the Windows NT section of this article. — *RV*

Slow exit

Whenever you exit a Netscape Communicator program, it performs cache maintenance on the way out. If you have a large disk cache you may find that exiting the program takes a very long time. There's a simple way to fix this — reduce the size of your cache:

Step 1: Open the Edit Menu and choose Preferences to open the Preferences dialogue box.

Step 2: Double-click Advanced in the Preferences dialogue and select Cache from the expanded list.

Step 3: Clear the cache, and then set the values to decrease the cache size.

Step 4: If you're finding that pages that should be in the cache appear to be taking a long time to load, at this point you can also make sure that the Verify Documents button is not set to Every Time.

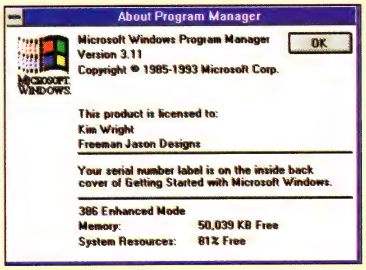
Step 5: Click OK to exit and use the new settings. — *RV*

DOS 6.2x

Update DOS 6.x

There are a couple of useful mini-enhancements from DOS 6.22 that you can patch simultaneously into DOS 6.x. The enhancements include version

Reaching for 3.11



If using Windows 3.1 makes you feel left behind, you can install the v3.11 update ftp://ftp.microsoft.com/softlib/mslfiles/ww0981.exe. This gives you new versions of seven files — but you'll still have plain old Windows 3.11, not Windows for Workgroups 3.11. — *LH*

4.49 of emm386.exe, which supports PCI cards, and version 2.11 of Microsoft Diagnostics (MSD — also see the following patch). First download ftp://ftp. microsoft.com/softlib/mslfiles/emm622.exe to a temporary directory, and make that the current directory. Next type *emm622* to open the archive, and then type *update*. The file msd.exe is updated in your DOS directory, so be sure to delete msd.* in your Windows directory and, finally, the files in the temporary directory. — *LH*

MSD for any DOS

Microsoft has provided various versions of MSD with Windows, Windows for Workgroups and DOS 6.x, but only the latest — MSD v2.11, supplied with DOS 6.22 — will pick out a Pentium. To add this cluey MSD to any version of DOS, download ftp://ftp.microsoft.com/softlib/mslfiles/ga0363.exe

In addition to msd.exe, the archive ga0363.exe contains two bonus files not included in the patch emm622.exe described above. There's an MSD user's guide in readme.txt, and msd.ini expands the selection in MSD's Insert Command option of the Utilities menu. Be sure to rename readme.txt to msdread.txt before moving it to your DOS directory, to avoid wiping out DOS's readme.txt file. Also delete msd.com, if it's in your DOS directory, and msd.* from your Windows directory. — *LH*

Windows 3.1

386 with maths coprocessor

If you're running a 386 with an 80387 maths coprocessor, you should update with the new win87em.dll contained in ftp://ftp.microsoft.com/softlib/mslfiles/ww0548.exe. PCs with 486DX, 486DX2 or Pentiums don't require the update. — *LH*

Printer push

If you're having problems printing from Windows, try the updated vpd.386 in ftp://ftp.microsoft.com/softlib/mslfiles/vpd386.exe. — *LH*

Slick sharing

Windows for Workgroups 3.11 (WFWG) comes with vshare.386 v3.11.0.300. This loads from system.ini, so to share files between programs or over a network, you don't need to load the DOS program share.exe from your config.sys or autoexec.bat file — as you do with Windows 3.1x. Unfortunately, some Windows applications, as well as shared copies of Windows 3.1x run over a network, often can't tolerate share.exe.

Unlike the original WFWG version, the updated vshare.386 v3.11.0.402 in ftp://ftp.microsoft.com/softlib/mslfiles/ww1000.exe also works with Windows 3.1x running in 386 enhanced mode. The update also cures a problem that sometimes causes WFWG to hang when you reboot. If you currently have vshare.386 in your \WINDOWS\SYSTEM directory, make a backup copy before following the installation instructions in the readme.txt file contained in the archive. — *LH*

3D dialogue boxes

Many Windows programs, such as mIRC v3.51 and later and NetTerm v3.2.x, can render 3D dialogue boxes. However, they will revert to the standard Windows display — and may warn you about it with the opening protest: 'Cannot find CTL3DV2.DLL' — unless you slot this 3D display controller into your \WINDOWS\SYSTEM directory. You can pick up v2.05 of the driver from ftp://bitsy.mit.edu/pub/dos/alpha-beta/techinfo/ctl3dv2.dll

Unlike many other drivers, such as the earlier ctl3d.dll, having multiple copies of ctl3dv2.dll makes a mess of the program that needs to use it — so it's important to do a search and delete any other copies on your hard disk. Users of Windows for Workgroups 3.11 can also use ctl3dv2.dll v2.26 that comes with Windows 95. — *LH*

Windows for Workgroups

Frozen fax

Microsoft at Work PC Fax will hang when it tries to initialise some modems that use a Rockwell chip. The updated awfaxio.dll in ftp://ftp.microsoft.com/softlib/mslfiles/wg1126.exe solves the problem, and the accompanying readme.txt file explains how to test your modem to see whether it needs the fix. — *LH*

Microsoft Mail

The user interface for Microsoft Mail's Address Book is provided by ab.dll. Version 3.02 originally supplied with Windows for Workgroups 3.11 crashes Win32s when you swap between Microsoft Mail and a Win32s application. This crashing is crushed with the updated v3.05 of ab.dll, available from ftp://ftp.ncsa.uiuc.edu/Mosaic/Windows/Win31x/Win32s/ab.dll — *LH*

Steady serial port

Does your PC sometimes lock up when you're trying to go online? If you have a 486 or Pentium, it could be the SMC 665 Super I/O chip frequently used for integrating 16550 UARTs on the motherboard. Unfortunately, that chip can become trapped in a mode where data is always detected in its FIFO buffer, and your PC keeps waiting to open its serial port until the FIFO buffer is clear — which never happens.

Or, does your modem always connect the first time you try after starting Windows for Workgroups, but never on the second and subsequent attempts — possibly hanging your PC in the process? This could be caused by your modem rebelling against an extra NUL character sent by the serial port driver just before the serial port is closed at the conclusion of the first connection. Both of these bugs are zapped with the upgraded serial port driver (serial.386, 17/02/94), available from ftp://ftp.microsoft.com/softlib/mslfiles/wg1001.exe — *LH*

Solo 32-bit file access

If you're running 32-bit file access but not 32-bit disk access, you'll need rmm.d32, the 32-bit file access real-mode mapper. You'll also need it if you want to enable 32-bit file access on a drive compressed using DriveSpace, DoubleSpace or Stacker, or if your PC is on a network. However, when loading Windows applications, PCs running on some networks will cop a five-second delay before any disk activity occurs. This is due to the in-built five-second timeout in rmm.d32 v3.11 originally supplied with Windows for Workgroups.

The updated real-mode mapper (rmm.d32, 16/12/93) lets you control the effect of this timeout. The new driver's default timeout is one second, which you can alter by adding a RMMTimeout= line to your system.ini file, as explained in the readme.txt file enclosed in the archive ftp://ftp.microsoft.com/softlib/mslfiles/wg0973.exe. — *LH*

Unlock the keyboard

If you set your password to null when installing Windows for Workgroups 3.11, your PC may hang at the Password dialogue box or in Program Manager — even though that same PC may have run Windows 3.1x without a flutter. That's because the keyboard controller for many PCs generates extra interrupts each time a key is pressed or released. Although the virtual keyboard driver (VKD) supplied with Windows 3.1x ignores those extra interrupts, the one accompanying Windows for Workgroups does not — hence the hangs.

This updated VKD (vdka.386, 01/12/93) ignores the extra keyboard interrupts, thereby eliminating the hanging. The readme.txt file that escorts the DLL in the archive ftp://ftp.microsoft.com/softlib/mslfiles/wg0974.exe explains how to edit your system.ini file to use vdka.386 instead of the VKD usually loaded by win386.exe, Windows for Workgroups' bulk driver depot. — *LH*

WFW networking

Pacify non-NetBEUI packets

If you run the 3COM Etherlink III driver elnk3.386, your PC could hang when the network is busy — particularly if there are several types of data packets other than those for NetBEUI. The archive ftp://ftp.microsoft.com/softlib/mslfiles/wg0990.exe holds an updated driver to fix the problem. — *LH*

Recalcitrant redirector

The program that juggles requests for resources, such as files and printers, shared over a network is called a redirector. The WFWG redirector lives in net.exe and can be run in either basic or full mode. Basic mode occasionally falls over when writing files to a network server, saving zeros for part of the file instead of its correct contents. Using the full redirector avoids the problem. However, if you want to stick with the basic redirector, there's an updated net.exe, net.msg and neth.msg in the archive ftp://ftp.microsoft.com/softlib/mslfile/nnet.exe. — *LH*

Stop Unix snoops

If you have any Unix-based computers on your network, they could have access to an entire drive on your PC when you only intended to share one subdirectory on that drive. Stop the snooping by installing the updated vserver.386 from the archive ftp://ftp.microsoft.com/softlib/mslfiles/wfwvsrvr.exe. — *LH*

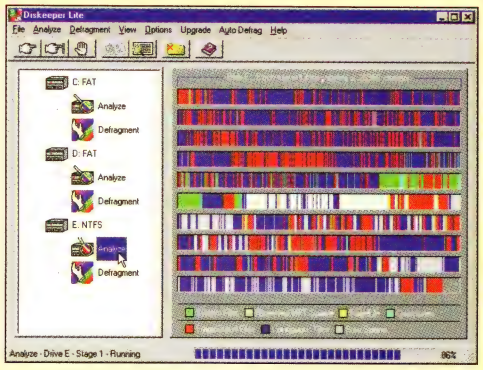
Windows NT4

Service packs

Service Pack 3 (SP3) is the latest bulk bug fix for NT4. It adds a host of new features, as well, and you'll find them all described in the file readme.txt (or sp340.txt). That file also lists the 200-odd bugs bashed by SP3, and nearly as many done under by SP2 and SP1, along with references to Knowledge Base articles describing the symptoms of each bug and the nature of the fix. The most important part of the file is the installation instructions. It also tells you how to uninstall the SP in case it creates more problems than it cures. Note that to allow for uninstalling the SP you need at least 60Mb of free hard disk space on your NT drive for saving the files SP3 replaces.

NT4 SPs are cumulative, so you can install SP3 without first installing SP2 or

Defragger



NT4 was supposed to ship with a file defragmenter, but that project only made it as far as an empty entry on the Tools tab of a disk drive's Properties menu. Microsoft's interim recommendation for defragging is to backup, reformat and restore — hardly an appealing solution.

Instead of developing its own product, Microsoft has given its blessing to commercial freeware Diskeeper Lite, which defrags both FAT and NTFS file systems in the background, while you get on with other work. For smooth defragging, SP2 or better is recommended for all PCs — but it's a must for laptops or notebooks. Diskeeper Lite is in dklite_i.zip from www.ntstorage.com/products/diskeeper/diskeeper.htm — *LH*

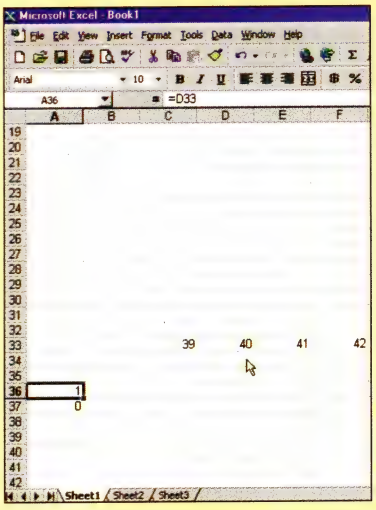
Auto-recalculation failure in Excel 97

Some people have experienced a problem with Excel 97 which prevents the automatic recalculation of a worksheet. This affects even those who have already installed Office 97 Service Release 1 (mentioned above). The problem occurs when:

1. There's a run of 18 or more consecutive formulae in a row, where each formula refers to the cell to the left of itself.
2. The run of formulae occurs in a row number that is divisible by 16 with a remainder of 1.
3. At least one of the formulae references at least one cell in a row above the run of formulae.

Seeing this type of bug explains why debugging a program of any size is so hard: how on earth could you test for all such circumstances? You can check if the problem is affecting your worksheets by trying the following:

1. Go to row 33.
2. Select D33:U33 and type *=C33+1*.
3. Press Ctrl+Enter.
4. In cell A36 type *=D33*.
5. In cell A37 type *=D17*.



6. Change the value in cell C33.

Note whether the value in A36 recalculates. If it doesn't, you're affected by the problem and you should install the Auto Recalculation Patch (*after* first installing Service Release 1) from www.microsoft.com/OfficeFreeStuff/Excel/dlpages/XL8P1.htm, or use the file xl8p1.exe from the *PC User* CD-ROM. In the meantime, you can force a recalculation by pressing Ctrl+Alt+F9. — *RV*

SP1 — and still end up with the fixes from all three. SP3 is available from ftp://ftp.microsoft.com/bussys/winnt/winnt-public/fixes/usa/NT40/ussp3/. Replace the */ussp3/* in that address with */ussp2/* for SP2 files or with */ussp1/* for SP1 files. — *LH*

Getadmin

The sneaky utility getadmin.exe circulating on the Net lets ordinary NT users move up to the Administrator's group, thus scoring administrative rights to the system. The patch Getadmin-fix, which must be applied after SP3 (see above), plugs this security hole. Getadmin-fix also removes two other bugs created by SP3:

1. With the Colour Palette set to True Colour (in Display Properties), Internet Explorer 3.02 may hang if you connect to a Web site containing a Java application.
2. A double mouse click gives the same effect as a single-click in some applications, including Visio Professional 4.x.

If you apply Getadmin-fix, available from ftp://ftp.microsoft.com/bussys/winnt/winnt-public/fixes/usa/NT40/hotfixes-postSP3/getadmin-fix/, it's not necessary to apply the individual patches, Java-fix and Dblclick-fix, previously provided to fix those two bugs. — *LH*

TCP/IP lockout

Known to insiders as Denial of Service or simply the Out of Band bug, this security hole lets someone who knows your current IP address knock you off the Net. No sooner had Microsoft created a cure — which is incorporated into SP3 — than someone discovered a way through the updated TCP/IP stack (tcpip.sys). An updated update was released a couple of weeks after the first, and is available as a patch for SP3, from ftp://ftp.microsoft.com/bussys/winnt/winnt-public/fixes/usa/NT40/hotfixes-postSP3/icmp-fix/. The updated patch for systems with only SP2 applied is available from ftp://ftp.microsoft.com/bussys/winnt/winntpublic/fixes/usa/NT40/hotfixes-postSP2/oob-fix/. — *LH*

Fax

Another NT no-shipper, Microsoft Personal Fax lets a single user send and receive faxes. You need a modem with a class 1 fax, which you won't be able to share with other users. Before installing Personal Fax, SP2 or better must be applied and the modem must be offline.

Download fax_i386.exe from www.microsoft.com/NTWorkstation/fax.htm — *LH*

Notes & Excel

Truncated decimals

Here's a perfect example of how *not* to treat your customers. There's a known bug in Lotus Notes 4.x's Excel file viewer. If you've defined a custom number format for your Excel worksheet and then try to view the worksheet in Notes, you can have no confidence in the numbers you're viewing. The Notes viewer eliminates all the decimal points from the custom formatted numbers, resulting in values multiplied by 100. The problem affects Excel 5.0, 6.0, 95 and 97.

Here's the really cute part: there's a fix for the problem, but Lotus couldn't be bothered releasing it. Why not? Because the company is concentrating on new product development and testing and applying the fix "will take a lot of work".

To rub salt into customers' gaping wounds, Lotus has said it won't include the fix in Notes 4.52 or 4.6. Instead, it'll toss it in when it gets round to releasing Notes 5.0. The fix is available directly from Inso Corporation (the company which developed the Viewer for Lotus) but at a price tag of $US30 *per seat* it's not an attractive solution. — *RV*

Office 97

Service Release 1

If you use Office 97, then you'll want Service Release 1 (SR-1). The original

SR-1 contained a bug, but there's an updated version now available.

This major update fixes a whole parcel of bugs and issues in Office 97. In particular, it makes it much easier to share files created using Office 97 with users of Office 95. SR-1 updates your Office package to use the Word 6.0/95 Binary Converter. With this converter, you can save Word 97 files in true Word 95 binary format — unlike the original release which produced an RTF format disguised as a Word 95 'DOC' file. Also included in SR-1 is enhanced support for POP3 and SMTP Internet e-mail in Outlook 97, support for Intel's MMX technology, a new Snapshot utility for Microsoft Access, and a bunch of new file viewers and converters. You can get SR-1 from www.microsoft.com/officefreestuff/office/dlpages/sr1of97z.htm. Or you can grab sr1off97.exe from our cover CD-ROM. — *RV*

Microsoft Excel

Excel and PageMaker with named ranges

If you have a named cell range in a Microsoft Excel spreadsheet that includes cells in column DY or higher and you try to insert it into an Adobe PageMaker 6.5 (or earlier) publication, you may end up with nothing more than an empty text block.

The workaround is to specify the cell coordinates in the Cell Range text box in the Excel Import Filter dialogue box, instead of using a named range. Alternatively, make sure your named range doesn't include cells in column DY or higher. — *RV*

WinFax Pro 8.0

What's up?

Symantec reports that the "What's This?" help button from the toolbar of WinFax Pro 8.0 does not work. This bug was fixed in WinFax Pro 8.01. This update can be downloaded using the LiveUpdate command from the WinFax help menu. — *JW*

Microsoft Outlook

Eudora & Netscape priorities

If you get e-mail in Outlook 97 from Eudora Pro or Netscape Communicator, Outlook may not recognise the priority settings. The downloadable fix, the Internet Mail Enhancement Patch for Microsoft Outlook 97 (IMEP), is at www.microsoft.com/outlook/documents/imep.htm — *JW*

Quick Smarts

If you know the ID number of a Microsoft Knowledge Base article, you can click straight to it on the Web, without having to play the multiple search-and-wait game from the Knowledge Base homepage. Simply rewrite the article ID Qxxxxxx as Qxxx/x/xx.asp, and add that to the end of the URL. To display the article Q143478, for example, point your browser to http://support.microsoft.com/support/kb/articles/Q143/4/78.asp

Note that Microsoft now uses ASP, rather than HTM, as the file type for Knowledge Base articles — and they're stored at a new location. — *LH*

Which file?

Patches for NT come in several flavours, and you could face a Web folder full of EXE files with little description to guide your download decision. Here are two ways to narrow your choices:

1. If two filenames are identical except for an *I* (or *i386*, which both stand for Intel) or an *a* (which stands for DEC Alpha) at the end of the name, go for the one with the *i* — adminfixi.exe, rather than adminfixa.exe, for example.

2. Every NT driver, dynamic-link library (DLL) and executable file is paired with a heftier version, called a symbol file, that's used for debugging kernel STOP errors. Because of the extra code, symbol files are bigger and run more slowly than the corresponding NT program files. Symbol files are usually included in the archive containing a patch, but sometimes they're separate EXE files in the Web patch folder — usually identified with the phrase 'sym' somewhere in the filename (adminsymi.exe is the symbol file for adminfixi.exe, for example). Unless you're an inveterate propeller-head, deeply into debugging, stick with the standard executables and leave symbol files where they lie. — *LH*

PC User Offline

On this month's CD you'll find:

Windows 95: OSR2 components, Internet Explorer 4.0, plus our tutorials.

DOS: DOS updater (emm622.exe); latest MSD (msd.exe in ga0363.exe).

Windows 3.1: Update to 'Win 3.11' (ww0981.exe); 80387 coprocessor driver (win87em.dll in ww0548.exe); updated printer driver (vpd.386 in vpd386.exe); new vshare (vshare.386 in ww1000.exe); dialogue box control (ctl3dv2.dll).

WFWG: Fax fix (awfaxio.dll in wg1126.exe); Microsoft Mail interface (ab.dll); serial port driver (serial.386 in wg1001.exe); solo 32-bit file access (rmm.d32 in wg0973.exe); keyboard driver (vdka.386 in wg0974.exe).

WFWG Networking: Etherlink III driver (elnk3.386 in wg0990.exe); network redirector (net.exe, net.msg and neth.msg in nnet.exe); Unix snoop stopper (vserver.386 in gwfwvsrvr.exe).

Windows NT4: NT4 Service Pack 3; NT4 Service Pack 2; Getadmin-fix for SP3 (includes Java-fix and Dblclick-fix); updated Out of Band/Denial of Service fixes for both SP3 and SP2; Diskeeper Lite (dklite_1.zip); Microsoft Personal Fax (fax_i386.exe).

Internet Explorer 4.0: Buffer overrun and Freiburg fixes (resbuff.exe).

Netscape Communicator: NT4 Java fix (getadmin-fix).

Office 97: Service Release 1 (sr1off97.exe).

Excel 97: Auto-recalculation patch (xl8p1.exe).

Outlook 97: Internet Mail enhancement patch (outlimep.exe).



Shareware

Angela Booth finds shareware and freeware for Windows 95, 3.1 and DOS to suit all tastes.

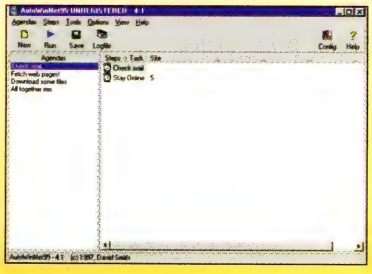
Windows 95

AutoWinNet95

URL: *http://www.webcom.com/autownet/welcome.html*
Registered price: *$40*
Rating: ★★★★★

AutoWinNet95 automates many of the tasks you perform online. You can schedule these tasks so that the program carries them out while you're busy with other work, or while your computer is unattended. Tasks you can schedule include: FTP transfers with automatic retries for busy sites and customisable log-ins; e-mail with unlimited multiple mailboxes; and Usenet downloads with support for Forte Agent and Anawave Gravity.

Automate Net routines



AutoWinNet95 Automates many of your Internet routines, such as uploading and downloading files, collecting mail, etc.

Internet Explorer 4.0 PowerToys

URL: *www.microsoft.com*
Registered price: *Free*
Rating: ★★★★★

These PowerToys add functionality and fun to IE4 — and they're free. However, you should note that although they were developed by the IE4 team, they are not officially supported by Microsoft, so you install and use them at your own risk. Some of the utilities include: zoom in/zoom out on any graphic on a Web page; open a frame in a new window; text highlighter; Web search; and links list.

INSTAbase

URL: *www.instabase.com*
Registered price: *$40*
Rating: ★★★★

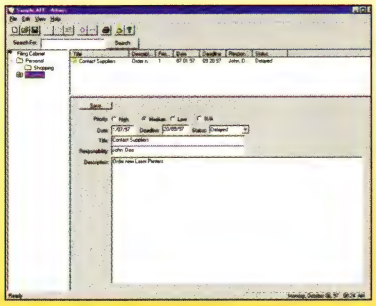
INSTAbase is a simple way to create as many flat file databases as you wish. A Master database is provided; enter fields and data within established frames, and add pictures and graphics to any field. It recognises URLs and e-mail addresses. You can add large blocks of text in the memo field, and click to expand the field to full screen mode.

LaunchPad

URL: *www.m2software.com*
Registered price: *$30*
Rating: ★★★★

LaunchPad is a simple but powerful file and program launcher; a toolbar which takes up very little space on your desktop. You can have as many toolbar sections as you like: divide your work via programs, projects etc. You can also drag-and-drop application files to the toolbar to install them. When you're not using the program, it rolls up out of sight; to access another program or file, click on the icon in the system tray.

Simple PIM



Multisoft Affairs is a PIM with a difference: it's simpler than most and interfaces well with other programs.

Multisoft Affairs

URL: *www.multisoftcorp.com*
Registered price: *$24*
Rating: ★★★★★

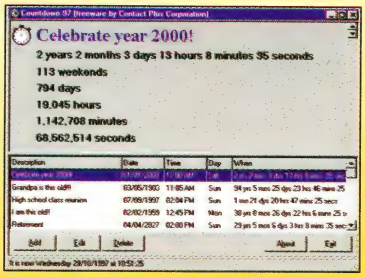
This program is a PIM (personal information manager), but it's a lot simpler and more intuitive than other such programs because it has a familiar Explorer-like interface. Tasks, notes and appointments can be added into a hierarchical tree, and the screen is divided into three areas — a tree-view of the database; records in selected folders; and an area to enter records. Multisoft Affairs can be easily integrated with Microsoft Office.

Yeah Write for Windows 95 Version 1.2

URL: *www.wordplace.com*
Registered price: *Freeware (registered version $25, includes additional functions)*
Rating: ★★★★★

Yeah Write is a brilliant program that combines the functions of a word processor, a database and a PIM. Instead of starting with a document as a blank,

The final countdown



Countdown 97 — count the minutes to any event!

unformatted, unsaved file, you begin with a pre-formatted template. The databases are tabbed along the top of the screen. Selecting a tab (really a folder) selects from a number of templates, including General, Journal, Letters, Memos, Notes etc. You can create new tabs (folders) as you need them, as well as sub-tabs/folders. The program is crammed with additional features, such as spell checkers in several languages, an option to create new tabs, as well as complete new databases ("drawers"), backup and restore, Internet features, and much more.

Countdown 97

URL: *www.contactplus.com*
Registered price: *Freeware*
Rating: ★★★★

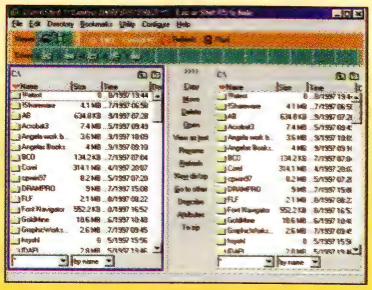
Find out the exact age of a past event (anniversary, birthday etc), or calculate the number of days to a forthcoming event (year 2000, your next birthday or an upcoming holiday) in years, months, days, hours, minutes and seconds. The program bases its calculations on your system clock and they are continually updated.

FileNotes

URL: *www.flash.net/~jmosier*
Registered price: *$20*
Rating: ★★★★★

If you've ever wanted to scrawl a note beside a file to tell you exactly what it's for and why you bothered creating it, this is the program for you. Use it to keep notes on all your Windows 95 files and folders. It integrates with Explorer, so you can browse through your notes whenever you open it by selecting a file, right-click-

Continuous manager



QuickShell is a small, fast and powerful way of managing your Windows 95 disks and files.

ing and selecting Properties. There are two applets included with the program: Monitor, which sits in your system tray and ensures that your notes stay with your files even when you move or copy them; and FileNotes Explorer, which provides a way of viewing all the files on your disks which have notes attached, and managing and finding files and notes quickly.

QuickShell

URL: *http://www.radsite.com/quickshell*
Registered price: *$40*
Rating: ★★★★★

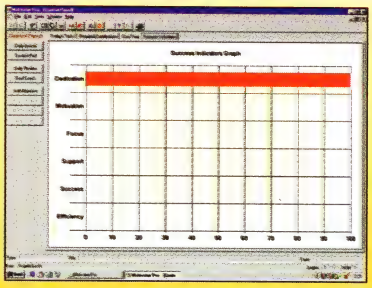
QuickShell is an extremely small but powerful way of managing your Windows 95 files. It runs continually in the system tray, and you can access it with a click, or via a hotkey. QuickShell includes all the usual file management options. Its unique features include: many filters accessed with a single click; Navigator interface — "bookmark" your favourite hard drive and folder locations; built-in viewers for text and multimedia; and auto load at system startup.

Motivator Pro

URL: *http://www.motivator.com*
Registered price: *$60*
Rating: ★★★★★

Motivator Pro doesn't simply provide a space for you to set your goals, it includes a Success Coach, that leads you through the goal-setting process. This starts with defining your own Success Creed — what success means to you. You can password-protect your work, so you can be totally

Reach your goals



Motivator Pro — get a head start on your New Year's resolutions.

honest. Next, the coach will help you to define your Objectives. You can create as many or as few Objectives as you wish. For inspiration, you can import pictures representing your Objectives into the program — these may be photos of your next holiday destination, or of the car that you're saving up for. The next step in the process is to set your goals, which will lead you to your objectives.

When you register Goal Image Bank is included, featuring 75 images for you to insert into your goal setting files.

Faxmail for Windows (available for Win 3.1 & NT)

URL: *www.electrasoft.com*
Registered price: *$75*
Rating: ★★★★★

FaxMail is an innovative program that features many capabilities you won't find elsewhere. Its best feature is that it totally integrates itself into the Windows environment. When it is active, it appends itself to system menus, and you'll see the FaxMail icon in the titlebar of whatever programs you're running. This means that you can send any document as a fax at any time: FaxMail converts the current document to a fax format, you select the recipient's name from a FaxBook (address manager), and FaxMail transmits the document. If you're away from your computer, you can still receive them — print, view or store them when you're available.

Visual Copy 2.0

URL: *www.hotfiles.com*
Registered price: *$25*
Rating: ★★★★★

Visual Copy is a simple utility that makes copying groups of files much simpler. Whether you copy files for backup purposes, or whether you're trying to sync files between various machines, Visual Copy is handy because it allows you to see precisely what's happening. The interface provides two panes; you can select the source files you want to copy or move in the left pane, and the right pane shows the destination. Radio buttons provide additional options.

It's Time

URL: *http://www.rks-software.com*
Registered price: *$25*
Rating: ★★★★

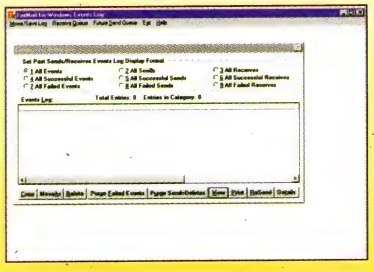
It's Time is a clever, easy-to-use reminder list. It stores unlimited reminders, and you can set the precise time you want to be notified. If you change your mind, you can set it to remind you again within any time span — minutes, hours or weeks. The program also allows you to set recurring reminders.

DataGrabber

URL: *www.hotfiles.com*
Registered price: *Freeware*
Rating: ★★★★★

DataGrabber is a tiny toolbar that allows you to do keyword searches on dozens of search engines and sources. As well as the popular search engines, the program gives you access to many little-known resources, and includes connections to specialised sites for humour, religion, hobbies, software, news, and many more. You access commands via an icon in the system tray, which takes up little space on the desktop.

Send faxes from any app



Send a fax from any Windows application which has a printing capability with FaxMail for Windows.

Flying Toolbars (requires Netscape Navigator)

URL: *http://www.webcom.com/flyingtb*
Registered price: *Freeware*
Rating: ★★★★

This program lets you maximise your screen when you're running Netscape Navigator. Basically the program adds an auto-hide feature to Navigator's toolbar so that the toolbar slides out of the way when you're not using it and increases your viewing area. Additional features include: Personal Buttons to create shortcuts to your favourite Internet locations; Batch Loader (load multiple Internet apps during Navigator's startup); Search Engine Submitter (search multiple search engines automatically); and Fast Access Buttons, which simulate various menu commands.

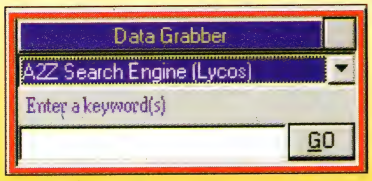
Windows 3.1x

Internet Commander

URL: *www.ccia.com/~rstalma/ic.html*
Registered price: *$12*
Rating: ★★★★

Internet Commander gives you quick access to your favourite Internet locations, as well as storing your passwords for you. The program is easy to use — the interface is simply a large toolbar. As well as the sites which are provided for you (search engines, software sites, hardware links etc), you can add your favourite URLs and Internet applications. Definitely worth having for the password keeper alone.

Ultra fast searches



DataGrabber allows you to speed up your searches on the Web, and it's free!

ScratchPad

URL: *www.shareware.com*
Registered price: *Freeware*
Rating: ★★★★★

As its name suggests, ScratchPad enables you to take notes while you're working in other programs. It's free, and it has a couple of unique features: it minimises at a click, and it also inserts Wingding symbols if you choose that option. Unlike other such programs, it allows you to save each of your notes in a separate file if you wish.

DOS

Boxer

URL: *www.boxersoftware.com/users/dhamel*
Registered price: *$71; order from—Aquarian Technologies, Phone: (03) 5470 6812; Fax: (03) 5470 6803*
Rating: ★★★★★

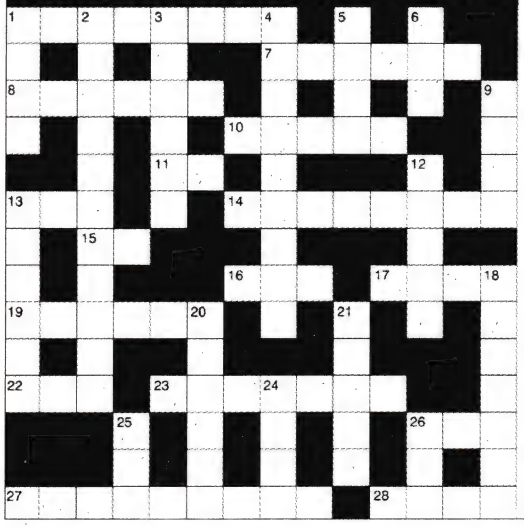
Boxer is a DOS text editor and supports the editing of multiple text files in multiple windows. The windows can be of any size, and can occupy various positions on the screen. Although Boxer was written as a text editor for programmers, it's a useful tool for anyone, especially if you have an older machine, or if you use a notebook PC. ❑

Try before you buy

This shareware and freeware is on this month's CD-ROM. See page 3 for details.

Crossword teasers

Computer Crossword No. 56



ACROSS

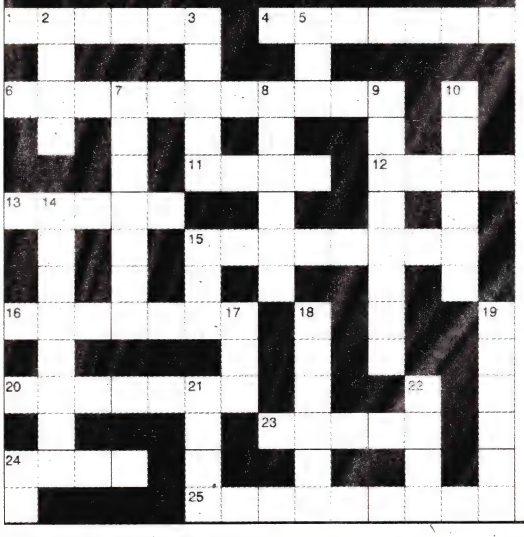
1 Processes which occur at machine level
7 Print or plot
8 Type of port
10 Lookup —
11 Better than NLQ, abbv
13 Binary digit, abbv
14 Place for storage of data within a program
15 Lisp or Prolog are in this class of programming languages, abbv
16 Megabyte, abbv
17 Corel —
19 — Simulator, popular game
22 Execute a program
23 Screen
26 Unprocessed data
27 Popular desktop publishing package
28 Type of network design

DOWN

1 — Processing Language
2 Highly configured personal computer
3 Allow an event
4 — network (2 words)
5 Internet language
6 Data path
9 Directory structure
12 End without saving
13 Temporary storage area
18 Desktop publishing catch cry
20 Founder of IBM, — Watson
21 —Page 97, Microsoft website publishing software
24 Device which is not in use
25 Internet location
26 Illness caused by over-use of keyboard, abbv

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Computer Crossword No. 57



ACROSS

1 — Oriented Programming
4 Meaningless data displayed or printed out due to program error
6 Disk compression software, DOS 6.0
11 Expert, colloq
12 Prefix meaning one-trillionth
13 Unit of measure, computer clock speed
15 Chip manufacturer
16 — rate, the number of times a screen receives a booster signal to maintain it's visibility
20 Computer professional
23 Character coding system
24 World Wide Web language, abbv
25 Software company

DOWN

2 Start up
3 — Labs, graphics cards etc
5 A high level programming language
7 Printer manufacturer
8 Make an illegal copy of software
9 Internet —, Microsoft browser
10 Monster munching computer game
14 Type of LAN
15 In many companies, the department responsible for computer systems, abbv
17 Access a homepage
18 The marker on screen which shows where the next operation will be displayed
19 Type of printer
21 Memory chip
22 Prefix meaning one thousand

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See page 108 for solutions.

Strange site

Flesh.com

URL: *www.escape.com ~flesh*

The words "Eternal life might not be organic" introduce one section of Thomas Noller's bizarrely fascinating site. Flesh.com, sub-titled *Reflections on the artificial body*, explores artificial bodies from a variety of aspects — clones, digital humans, game elements.

Make sure you have Netscape Communicator or Navigator 4.0, as it uses non-standard Dynamic HTML to work its tricks.

by Rose Vines

Strange site

Wacky patents

URL: colitz com /site/wacky.htm

Rube Goldberg had nothing on some of the featured inventors in The Wacky Patent of the Month site.

How about a combination cigarette lighter and perfume dispenser (make sure you don't get the controls confused). Or an ambulatory sleeping bag, for those times when nature calls when you're out enjoying nature.

Then there's my favourite, the Annunciator for the Supposed Dead. If ever you are buried before your time (surely one of the greatest of childhood horrors) this handy device allows you to sound an alarm and let those still in the land of the living know of your subterranean predicament.

You'll find these and other delights at the URL above.

by Rose Vines

Strange site

URL: *http://pemtropics.mit.edu/~jcho/spam/*

If extraterrestrials ever land on earth, how will they judge us? Perhaps they will land in the Domain in time to hear a performance of Beethoven's 7th during the Sydney Festival. Or, perhaps, they'll tap into the Net and discover this site, which currently houses over 7200 haiku about Spam. Who knows which will appeal more to alien tastes?

Here's a single Spamku for your delectation:

Ears, snouts and innards,
A homogeneous mass —
Pass another slice.

If you're inclined to sample more, gorge yourself at this site.

by Rose Vines

That's Debatable:

Where are the fun games?

Has the 'magic' in games disappeared? Rose Vines and John Hilvert debate.

JH: Ever since I started reviewing games regularly I feel their magic has gone. I've played platform games, sports and machine simulators, strategy games and all those Quake-inspired shoot-at-anything clones. None seem to do it for me anymore.

The earlier and graphically cruder Zorks, Pacman, Castle Wolfenstein and Infocom games seemed to have more going for them than the current multi-CD clunkers. We get lashings of stunning 3D-styled video that tend to lose their charm once the introductory sequences are over. Furthermore they are so *buggy* I feel more like a plant researcher at the CSIRO. It seems like a chore to complete many of the latest games. Why is it so?

RV: I think you're growing jaded, John. You're right that there is a problem with games software, but it's not because "they don't make 'em like they used to". I think the problem is market saturation. In such a mass of software, the vast majority of games are bound to be fair to middling in quality; only a few will stand out from the crowd. That means it's a purchasing nightmare. With the sophisticated packaging that encloses mediocre and magnificent games alike, it's no mean feat to choose a winner. Despite that, even some like me — a games dilettante — has no trouble in finding gems. In the past year, I've had a blast with Icebreaker, The Neverhood and Lighthouse — three very different styles of game. Each of these games was not just fun, but also technically stunning in some way.

JH: Whether it's market saturation or being jaded, I think we users are getting a raw deal. Too many developers think that giving you network play compensates for a lack of thought or wit in their games. I am pleased to hear you have found a few hot games. But for the rest of us, it's hard enough doing an install that won't fall over, or waiting for the latest patches. It seems more like work than play for me. Neverhood I recall being cute — but crashing my system fairly often. The other two I'd not heard of. Maybe that's just as well.

RV: Of course there are games out there that are crummy. We all know that one bright spark comes up with a terrific concept, such as the 3D perspective in Wolfenstein, and then hundreds of imitators try to cash in. A few of them improve on the original — that's where Doom took off. Many are rather boring copies. I have no argument with you there, John. But the great games keep on coming, fuelled by high-performance hardware and the techniques garnered from past smash hits. Just read some of Julian Schoffel's reviews in recent issues of *PC User*. If anyone should be hard to impress, it should be our very own games editor. And yet, as recently as four months ago he called *Dungeon Keeper* "perfection". I'd certainly like to see more games that know how to exist happily in the Windows 95 world. It's a hard call for a games developer — do you optimise your game to run on a high-performance, Windows 95 machine or try to cater to as broad a base of users as possible by making it work across platforms? I'm sure we'll see far more games stability once developers get ruthless and abandon older hardware and software combinations.



SOLUTION FOR No. 57

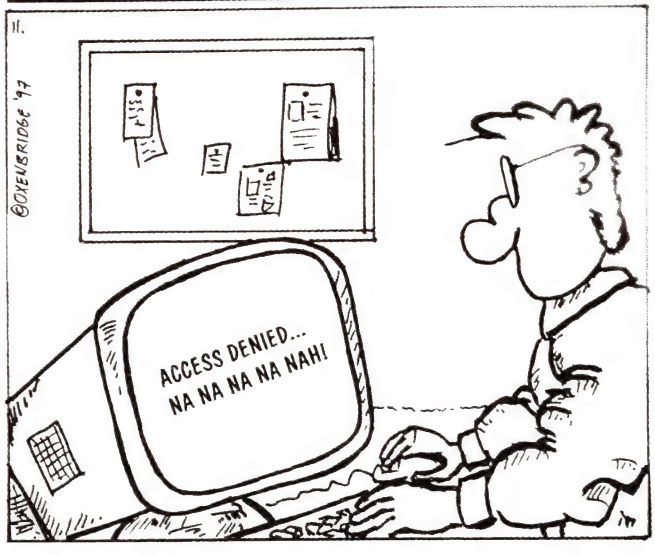


SOLUTION FOR No. 56

JH: I'd like to see games developers get back to basics and focus on gameplay and intelligence. I'd like Windows 95 installations as well. But those cussed DirectX drivers of theirs, which are supposed to improve screen refresh, keep changing and introduce other hellish incompatibilities. But that's best left for another time.

RV: Well John, you can console yourself with the thought that by the time this is published, you'll probably be deep into the fourth or fifth Riven CD and feeling no pain. ❑

COMPUTE THIS! by Rob Oxenbridge



Australian PC User

JANUARY 1998

Showcase

Advertisers' Deals of the Month

PERSONAL TUTOR "SENIOR MATHS" FOR WINDOWS

Here's a fabulous back-to-school offer of "Senior Maths" for Australian Year 11 and 12 students. The first 100 *PC User* readers who telephone Memory Banks will receive a $50 discount to $245.

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See page 120

COMPUTER ALARM

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E-mail: best@tpgi.com.au

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See classifieds

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From: Communique Software
Phone: (02) 9622 5624
Web: http://www.communique.com.au

Price: $149

See page 117

NINTENDO 64

Described as "the most powerful console on earth", the Nintendo 64 allows users to experience true 3D environments, exhilarating realism and detailed sound. And it costs only $179 with two games.

From: Software Today (Melbourne)
Phone: (03) 9639 2444
Web: http://www.softwaretoday.com.au

Price: $179.95

See page 118

PENTIUM 166MMX SYSTEM

This Pentium 166MMX system includes 32Mb RAM, an Octek Rhino motherboard, 14-inch Samtron monitor, 24X CD-ROM, soundcard, 1.7Gb HDD, MPEG card, Windows 95, Lotus Suite 97, anti-virus, keyboard and mouse.

From: SCN Computer Express
Phone: (02) 4285 9344
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Price: $1499

See classifieds

VIDEO CONFERENCING KIT

A high performance PCI full-motion video/still image capture solution for video conferencing on the Net. The kit includes video capture card, Philips CCD camera and software. The special price applies to those who mention this advertisement.

From: Microgram Computers
Phone: (02) 4389 8444
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Price: $479

See page 121

MAUS MASTERPLAN

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See page 119

CYDEX INTEL PENTIUM II 300 SYSTEM

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From: Cydex Computers
Phone: (02) 9411 5088
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See classifieds

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From: City Software
Phone: (03) 9558 9555
URL: mzammit@citysoftware.com.au

Price: $289

See page 114-115

G5-200

The G5-200 from Gateway 2000 is a fully configured Pentium 200MMX multimedia machine with an X2 technology modem.

From: Gateway 2000
Phone: 1800 500 792
Web: http://www.gwzk.com.au

Price: $2599

See page 33

How to participate: The Advertisers' Deals of the Month page is open to submissions from all companies who take out at least one full-page ad in that edition of *Australian PC User*. For more information contact (02) 9288 9144.

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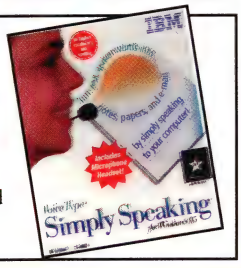


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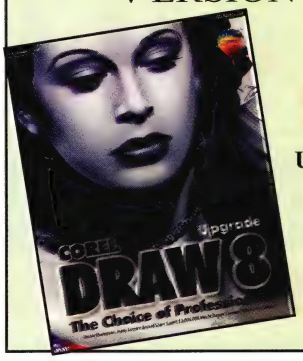
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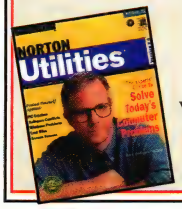




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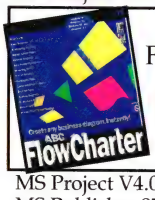
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HP Desk Jet 850C/855C/870C Series	6	29-BKL
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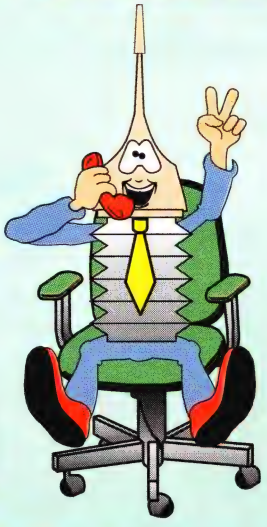
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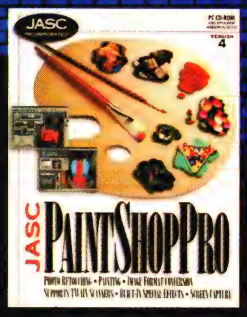
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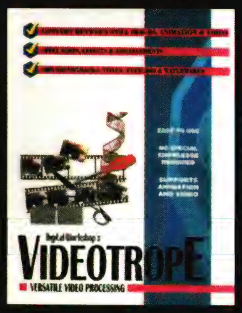
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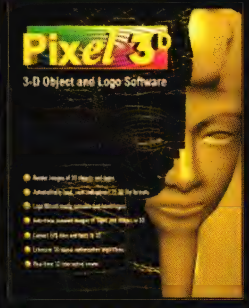
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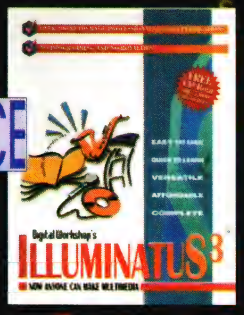
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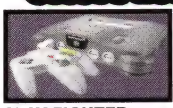
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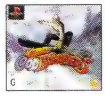


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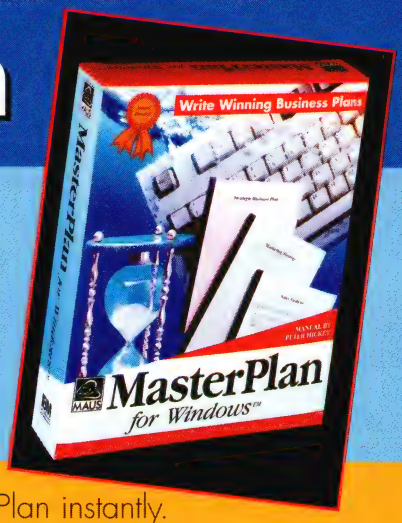
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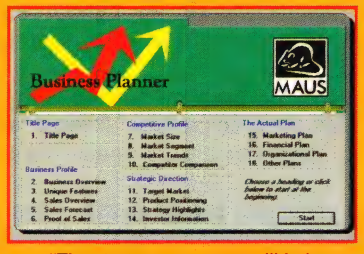
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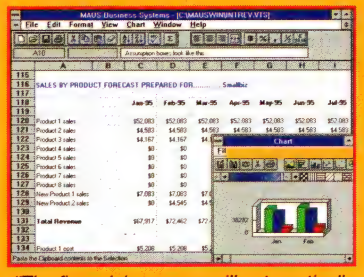
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"Personal Tutor" courses are especially written to help Australian students cope with year 11 and 12. Each package relates to an entire 1 or 2 year course of study in Maths, Biology, Chemistry and Physics.

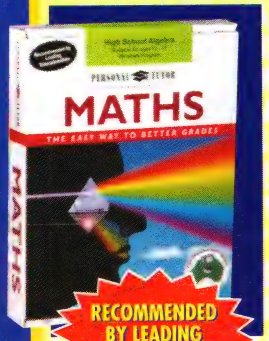
The programs can be used throughout the year, to reinforce class-work, or can be used as a revision tool before major exams.

Working on Personal Tutor, not only helps you to understand what you are doing but has revision features that help to absorb and retain the work in long-term memory.

Personal Tutor even identifies your knowledge gaps and designs a revision program especially to fit your needs.

Although Personal Tutor is designed for home use, without teacher support, the software is now becoming well established in school computer rooms.

BEATING THE MATHS BOGEY



Can you help your kid with maths? If you can't or you don't have the time or patience, the solution to your problems could be the Personal Tutor High School Maths program (suitable for ages 12-17).

This is a unique interactive tuition software on Windows and especially written to teach Australian High School students what they need to know about maths.

Personal Tutor High School Maths is an extensive course which develops mathematical skills throughout the high school years. This is a complete teaching system - no extra help is needed.

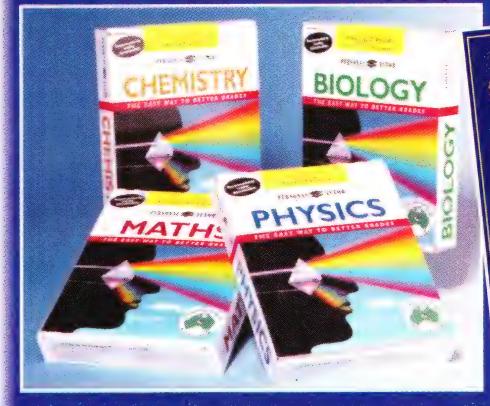
The program concentrates on problem solving with a lot of help. You are taught course material through an interactive process of short teaching screens linked with questions.

There are simple explanations, clear diagrams and highlighted formulae.

Every question comes with a lot of help and each problem has a step-by-step solution in case of difficulty. You can take as many steps as you need - just like a having a home tutor to help you.

The program also features easy-to-use exam preparation and a personalised revision program.

Personal Tutor High School Maths costs $275 (less than $2 per lesson) and runs on any IBM (386 or higher) compatible computer using windows 3.1 or higher.



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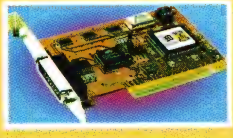




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With a PnP Motherboard BIOS this card will auto configure with any 8 byte I/O address from 100H to 3F8H as well as auto configure with IRQ 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15. In legacy mode it is software configurable from COM1 to 4 and IRQ3-15. Fitted with 16550 UART's, connection is via a DB9F connector.

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CANON BJ-300/ 330	7	4-BKL
CANON BJC-600/610/620	15	5-BKL
CANON BJC-4000/4100/4200/4550 BCI-21	50	19-BKL
CANON BJC-4000/4100/4200/4550 BC-20	8	18-BKL
HP Desk Jet 400/500/600C/660C/690C	7	8-BKL
HP Desk Jet 850C/855C/870C Series	6	29-BKL
HP Deskjet/Deskwriter Portable/300 Series	8	7-BKL
EPSON Stylus 400/800/800+/1000	8	1-BKL
EPSON Stylus Colour /PRO/XL	8	2-BKL
EPSON Stylus 820/colour II/IIs	12	23-BKL
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HP Colour Desk Jet 300/400/500/600C/660C/690C Series	3x12	14-CLR
HP Desk Jet 850C/855C/870C Series	3x6	30-CLR
EPSON Stylus Colour /PRO/XL	3x6	16-CLR
EPSON Stylus 820/colour II/IIs	3x12	24-CLR
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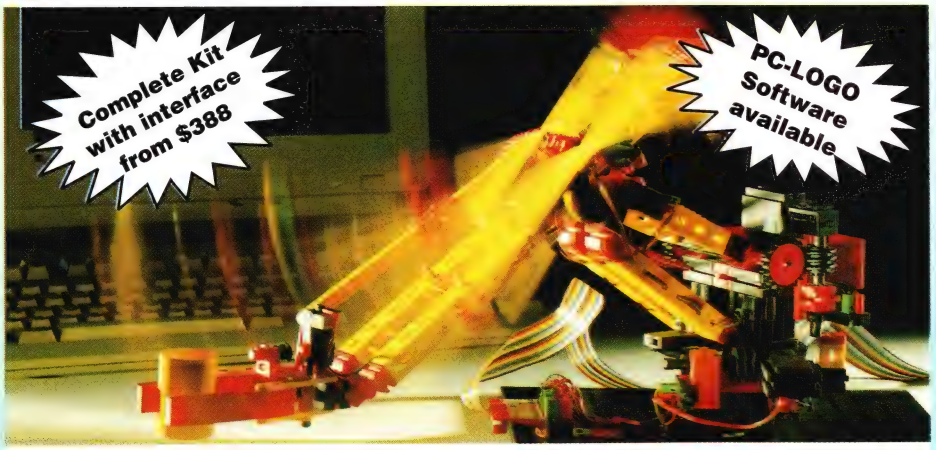
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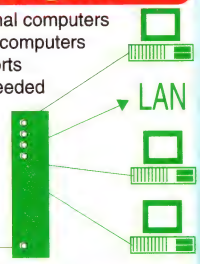
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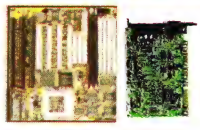
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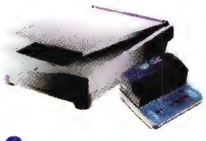
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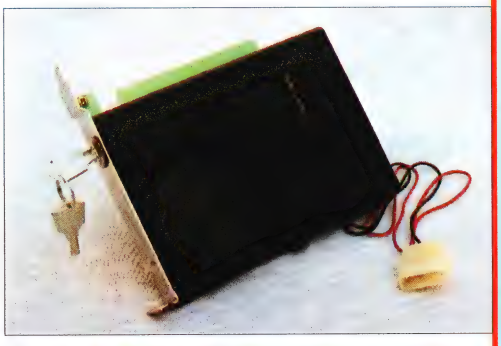
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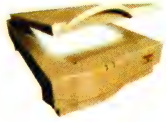
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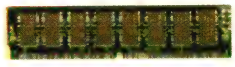


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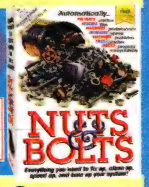
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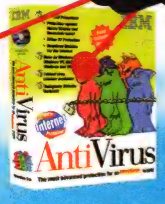


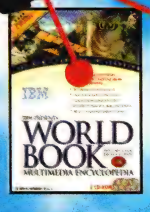


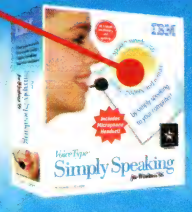
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Adobe 23
All Computer Solutions 49
APC 32
AutoCAD 23
Banksia 59
Borland 17
Canon 58
Checkmark 35
Cheyenne 41
Claris 16
Compro 47
Corel 24
Creative 49
Cybec 29
CyberMedia 36-37
Diamond 46
Epson 55
Hayes 80
Hewelett Packard 7, 44, 56-57
IBM 9, 11, 34, 64
IMSI 19-21
Indigo Pacific 14
Iomega 50
Logitech 53
Lotus 18
Map Info 14
MAUS 13
McAffee 40
Microsoft 4 -7
Microtech 54
Mitsui 22
MYOB 9
NetComm 80
NetGear 42
Ni-Tech 30-32,39
Nodtornics 24
Norman 33
Quarterdeck 26,27
Software Suppliers 28
SOHO 15
Sony 48, 50
Symantec 10, 25
SyQuest 51
TQA 15
Tracker 17
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Feature PC Anywhere 32 7.5 95/NT ..... PAGE 10
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Feature Smartsuite 97 95/NT CD ..... PAGE 17

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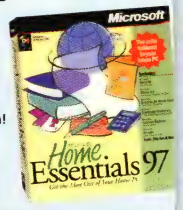
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Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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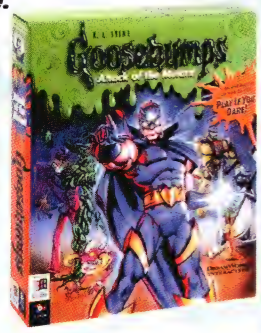
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GooseBumps comes to life. Play if you Dare, Mortal!



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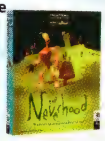
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The desktop publisher for kids that's packed with writing & drawing tools.

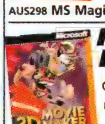
MIC526 **MS Creative Writer** **$37**



Magic School Bus Dinosaurs

Go on a thrilling dinosaur search today!

AUS298 **MS Magic SchoolBus Dinosaurs** ... **$59**



MS 3D MovieMaker

Create your own Nickelodeon movies with your favourite Nick characters

MIS528 **MS3D MovieMaker** **$49**

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Includes Internet starterkit 3.0

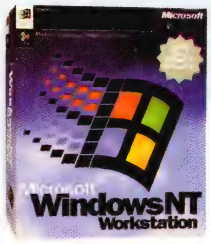
New Interface:Smarter, easier to use interface features longer file names and simpler file and document management.
Bigger, smoother video:Windows 95 is a powerful 32 bit operating system that lets your computer process more data effectively making the quality of the video you see vastly better.
Plug-and-play upgrades: Upgrading your PC is easier. No more complicated installation with AUTOEXEC.BAT and CONFIG.SYS. Just look out for upgrade boards and peripherals that feature PnP compatibility. True multitasking: With Windows 95 you will be able to take advantage of true multitasking for the first time on a PC. You'll be able to open multiple applications.



Buyers guide to Windows NT and Windows 95	Windows NT Workstation 4.0	Windows 95
What is it?	An Industrial-strength operating system for business applications now with the Windows 95 user interface	The easiest operating system for general business and home users
What you get	• Highest level of performance • Less emphasis on backward compatibility	• Increased reliability and performance over Windows 3.1 • Greater emphasis on backward hardware and software compatibility • Plug and play • Better mobile and games support
What you need to run it	• 16Mb of RAM • 140Mb of hard disk space	• 8Mb of RAM • 40Mb of hard disk space

Windows NT Workstation 4.0

Combines the ease of use of Windows 95 with the power of Windows NT. Windows NT workstation 4.0 combines the ease of use of Windows 95 with the reliability and security that have made Windows NT a success in the demanding workstation marketplace. This release also includes built in networking support, providing secure easy access to the internets. new administrative features now make it easier to manage and control, which helps reduce the total cost of operation. The newest version of Windows NT Workstation includes these benefits: Greater ease of use of the Windows 95 user interface. Windows NT Workstation also includes Windows NT Explorer, providing users a hierarchical view, or tree of each drive and folder on the computer. Peer Web services enable low-volume personal Web publishing in corporate intranets.



WIN072 **MS Windows 95 on CD U/G** **$139**
WIN071 **MS Windows 95 on 3.5 U/G** **$139**
MIC464 **MS Windows NT Workstation 4.0** **$399**
MIC486 **MS Windows NT Workstation 4.0 U/G** **$195**

Microsoft Visual Studio 97

Microsoft Visual Studio 97 is the complete of visual tools from Microsoft.

Microsoft Visual Studio 97 Professional Edition gives developers the tools and flexibility to create high-performance Windows and Internet applications. Visual Studio 97 Professional comes with Microsoft Visual Basics 5.0, Visual C++ 5.0, Visual InterDev 1.0, Visual FoxPro 5.0 and the MSDN library Developer Reference CD-ROM. Visual Studio 97 comes with a license for one developer. Microsoft Visual Studio 97 Enterprise Edition adds the power of multi-tier, scalable solutions to Microsoft Visual Studio 97 professional.

Features Benefits

- Super fast applications with the native code compiler.
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- Internet controls included.
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- Activex web application creation.
- Build state of the art Internet/intranet based applications.
- Make existing apps integrate with the internet using internet controls.
- Quickly build ActiveX controls that can be used by Internet browsers.
- Reduce cost of ownership through decreased setup and maintenance
- Intelligent design environment.
- Higher developer productivity: create applications faster and easier.

Visual Studio 97 Enterprise Edition gives developers the tools to integrate client/server development with Internet technologies.
In addition to the suite of award winning development tools found in the Professional Edition, Enterprise customers will get the Microsoft Transaction Server, SQL Server 6.5 Development Edition, Visual SourceSafe 5.0 and Integrated Transact-SQL debugging from Visual Basic 5.0 and Visual C++ 5.0,.
Visual Studio 97 comes with a license for one developer. Microsoft Visual Studio 97 Enterprise Edition includes everything within the Professional Edition and adds the ability to scale client/server solutions to the Enterprise with integrated support for SQL, transactions and team development. Microsoft's comprehensive suite of award winning development tools in one economical package. The developer deal of the year.



MIC692 **Microsoft Vis/Studio Pro 97 Ed** **$279**
MIC685 **Microsoft Vis/Studio Ent 97 U/G** **$1289**
MIC736 **Microsoft Vis/Studio Pro 97 CD** **$1299**
MIC682 **Microsoft Vis/Studio Pro 97 U/G** **$639**

Microsoft Visual Basic 5.0

Microsoft Visual Basic 5.0 is a rapid application development (RAD) tool. It's the most efficient tool for creating high-performance applications that run on Windows 95 and windows NT



Easily create ActiveX controls that can be reused in many different development tools, including Visual Basic, Visual C++, Microsoft Office and Microsoft Internet Explorer. Convert existing applications developed with Microsoft Visual Basic 5.0 to ActiveX Web applications which can be automatically installed and run in an Internet Browser. In addition the Enterprise Edition is for teams of developers building solutions for large organisations. it includes Microsoft SQL Server and tools for fast data access, SQL debugging, distributed transaction processing and team development for database and object oriented analysis.
Microsoft Visual Basic 5.0, with an integrated native code compiler, is the most efficient tool for creating high performance win 32-based applications and components. Build fast Windows based applications more efficiently and quickly than ever before. Create ActiveX controls with little or no codes and create ActiveX Web applications for the Internet and intranet. The fastest way to build high performance Windows applications Visual Basic 5.0 has Native Code Compile, so applications developed in VB will run up to 20m times faster.Has intellisense technology that makes developing in VB even faster and easier. With over 3 million developers, VB is the best selling and most widely used development too in the world.

BVG028 **MS VIS Basic V5 Learning Edition CD** **$129**
MIC265 **MS VIS Basic PRO V5 CD** **$649**
MIC352 **MS VIS Basic PRO V5 U/G** **$329**
MIC679 **MS VIS Basic PRO V5 C/G** **$389**
MS5009 **MS VIS Basic Enterprise** **$1579**
MIC684 **MS VIS Basic Enterprise U/G** **$889**

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LICENSE PAK

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MIC485 **Visual J++** **$119**

Microsoft Visual C++



MIC715 **Visual C++ V5 Standard CD** **$129**
MIC678 **Visual C++ V5 Pro** **$649**
MIC739 **Visual C++ V5 U/G** **$319**
MIC680 **Visual C++ V5 Ed** **$129**

Visual InterDev

MS Visual InterDev the newest member of the visual tools family, empowers, web application developers to rapidly build fully interactive, dynamic Web sites. wit visual development features and powerful database tools, Visual InterDev provides the most complete and technically advanced development system for building both intranet and internet applications.



MIC753 **Visual InterDev** **$699**

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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In the past licensing agreements for Microsoft software have only been applicable to large organisation. International Software Warehouse now offers Microsoft Open License Packs (MOLP) not only to corporate customers, but also to small and medium sized companies. Today, if you want to install Microsoft Office 97 on 10 machines (or less if maintenance is included), you now qualify for an Open License Agreement. Below we explain in more detail how MOLP works, but for more details call our sales team on 1300 360 799.

Why licensing makes sense

Software is a driving force behind your organisation's productivity. But why pay a premium to license it one at a time? And why take up valuable space with piles of boxes, duplicated documentation, and extra disks? The MOLP makes licensing software incredibly simple and straightforward.

The Open License gives you volume purchasing power for ordering and reordering Microsoft software for up to two years. MOLP offers such benefits as low minimum purchases, zero forecasting requirements, no cumbersome paperwork or reporting hassles and no commitment to buy additional products. The Open License term defines the word "flexible". You can choose the right amount of products that fits your organisation, today and tomorrow.

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The Open License enables small business, corporate, government, and educational organisations to efficiently purchase their required software, while reducing administrative overhead and distribution costs.

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Price Band A	**20 units**
Price Band B	**200 units**
Price Band C	**1,000 units**

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For more information on MOLP and how it can save you money call our sales team on 1300 360 799.

MS BackOffice Small Business Server

Microsoft BackOffice Small Business Server is the complete business solution that makes it easy to manage and grow your business.

Microsoft Small Business Server features award-winning products that give you everything you need to run a growing business. Designed for companies with 25 or fewer PCs, it's an integrated solution for sharing files, databases, printers, electronic mail, fax services, applications, and other resources with anyone, anywhere, at any time-all from one integrated server. You get advanced communication services and fast, flexible access to the Internet. Best of all, the server is exceptionally easy to set up, manage, and use, so you can get up and running with it right away.

Microsoft Small Business Server works with the business systems you have now and will work with the technology you'll need in the future. That means you can preserve your current investments while enjoying the advantages of new technologies.

MS Small Business Server works easily with MS Office and other leading applications, so you can integrate information from almost any source into your desktop PCs.

What's more, the server supports applications for MS Windows - the world's most popular software environment - so the latest, best solutions will continue to be available for your business. Software developers have already created more than 2,000 applications and tools that work with Microsoft Small Business Server to meet specific business needs.

Microsoft Small Business Server can also help you schedule meetings with employees, customers, and business partners, and assign and manage tasks among team members regardless of their location-all without expensive conference calls. Or you can publish a White Pages directory of names, e-mail addresses, and phone numbers to ease collaboration between employees and business associates.

As your business continues to grow, Microsoft Small Business Server can provide the foundation you need to preserve your computing investments, plus a clear direction for managing your expanding technology needs.

File, print, and application services;

Proven product, secure, reliable, comprehensive platform for connecting to the Internet .

MS SQL Server provides a powerful, secure relational database for running business apps.

Communicate in new, more efficient ways;

Communicate across the world build an online community with electronic mail, discussion groups etc. Centrally manage sending and receiving faxes. Locate a Service Provider & get on the Internet fast! Manage professional-looking Web sites without programming. MS Proxy Server - fast, secure access to the Internet from individual desktop PCs. Share modems from a central location.

Easy to set up, manage, and grow

Installing MS Small Business Server is truly easy. Automated tools

walk you through the setup step by step.

MS Integrated Server Setup installs all server components; just answer a few questions.

MS Setup Computer Wizard; a simple, quick way to add new PCs to your network.

Console centralises management tasks in an intuitive location, complete with Wizards.

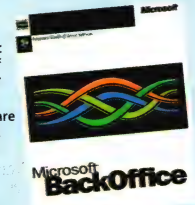


MSS070	BackOffice SBS 4.0 English Intl C/P Upg. CD 5 Client	$1,299
MSS072	BackOffice SBS 4.0 English Intl CD 5 Client	$2,059
MSS071	BackOffice SBS 4.0 English Intl CD 25 Client	$3,399

MicroSoft Back Office Version 2.5

Microsoft BackOffice provides the integration, ease of use, scaleability and manageability hitherto unavailable with traditional client server or Internet software. It provides the best foundation for a new class of solutions that combine the best of three-tier client server and Internet technologies allowing either thick client or thin client solutions to be used as appropriate.

All six members of the BackOffice family work together and share a solidly defined, solidly supported, truly open architecture built around Active X, COM and Windows Open Services Architecture (WOSA)



The Microsoft BackOffice 2.5 includes six integrated "best-of-breed" components that work together to help run your business.

They are:

Microsoft Windows NT Server 4.0

A multipurpose network operating system that is the most powerful, reliable and open platform to build, deploy and manage file and print sharing, client-server and Internet applications for your networks. Windows NT 4.0 includes Internet information Server - so you have all you need to set up a web server.

Microsoft SQL Server 6.5

SQL Server 6.5 represents the state-of-the-art in relational database management technology, with enhancements including increased performance, heterogeneous replication to ODBC subscribers, distributed transaction control, and Internet connectivity.

Microsoft SNA Server 3.0

Makes it easy to connect PCs to IBM mainframes and Asi400 systems. Graphical administration tools help you configure and manage that connectivity, giving users convenient, reliable access to host systems, and administrators easier management of new users and devices.

Microsoft Systems management Server 1.2

The most comprehensive solution for managing an entire enterprise-wide system or a 20-node network; an easy way to manage your system that also helps you control administrative costs.

Microsoft Exchange Server 4.0 (with free upgrade to 5.0)

A highly scalable messaging solution integrating e-mail, group scheduling, electronic forms and GroupWare applications.

Proxy Server 1.0

The Microsoft Proxy Server is the easiest and most secure way to bring Internet access to every desktop in an organisation.

MSS031	MS BackOffice Server +5	$6299
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Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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HWP242	HP ScanJet Transparency (HP 6100C)	$659
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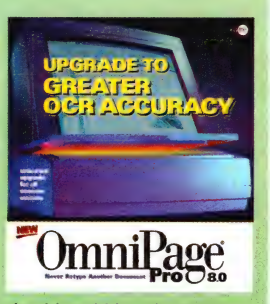
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Aptiva Series from IBM

Aptiva S Series

The Aptiva S Series continues to set the standard for the ultimate in home computing with its award winning split system design, superior multimedia, powerful communications and the latest technologies. The S Series introduces 2nd generation of the Split System design which is now easier to use than ever before with the addition of the new EZ Buttons keyboard and ScrollPoint mouse. The S Series comes well equipped for the most demanding PC enthusiasts and gamers with Sound by Bose featuring TrueSpace and Acoustimass technologies, ATI 3D Range Pro graphics w/2x AGP DVD-ROM II drives and 2nd generation Pentium II processors. In addition, the Aptiva S Series includes a complete suite of internet applications features Voice-enable, Netscape Navigator and a total home communications system with RingCentral.



Features:
- Architecture: Mini tower (6x6)/media console (0x2)
- Processor: Pentium II 233MHz
- Memory: Standard / Maximum 32MB/ 384MB
- CD-ROM speed: DVD-2 (Digital Video Disc)
- Disk capacity: 4.2 GB EIDE
- Monitor : 15"
- Graphics type: SVGA (with 3D graphics)
- Video RAM Std/max: 2MB/4MB
- Graphics bus interface: PCI
- Software: Pre-installed is a large selection of useful software, including Louts SmartSuite
- Warranty: Limited warranty - One year On-site

IBM103 Aptiva S Series..... **$4299**

Aptiva L Series

The Aptiva L Series has been designed for the family that wants to get the most in education , learning, productivity and fun from a home PC. The L Series comes packed with many of the latest technologies, including a custom-designed Bose audio system and Arcade 3D graphics capabilities that enhance the multimedia learning and entertainment experience.

With is sleek black design, the Aptiva L Series components are styled to integrate seamlessly with one another.

Benefit from Software Warehouse's buying power & market leading pricing when you buy your computer

Features:
- Architecture: Mini tower
- Processor: Pentium with MMX technology 200MHz
- Memory: Standard / Maximum 32MB/ 384MB
- CD-ROM speed: 24x maximum (variable speed)
- Disk capacity: 2.1GB EIDE
- Monitor: 15"
- Graphics type: SVGA (with 3D graphics)
- Video RAM Std/max: 2MB/4MB
- Graphics bus interface: PCI
- Software: Pre-installed is a large selection of useful software, including Louts SmartSuite
- Warranty: Limited warranty - One year On-site

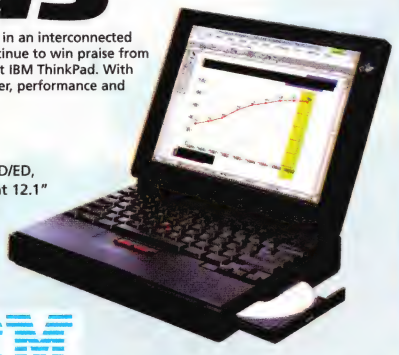
IBM102 Aptiva L Series **$2799**

IBM ThinkPads

IBM's award-winning ThinkPad family of notebook computers provide the most powerful and convenient way to work anywhere in an interconnected world. IBM is dedicated to delivering the highest quality notebook computers in the industry. Year after year, IBM ThinkPads continue to win praise from around the world and throughout the industry. The competition is moving fast; you've got to move faster. It's time to think about IBM ThinkPad. With eye-catching design, clear, brilliant displays and powerful Pentium processors, IBM ThinkPads provide the ultimate in mobile power, performance and affordability.

IBM ThinkPad 380ED

All-in-one convenience, versatility and power. The new integrated design offers a diskette, CD-ROM (standard on 380D/ED, optional on 380 and 380E) and hard disk drive in one convenient package. Add a powerful Pentium processor, brilliant 12.1" display and spacious hard drive. With the ThinkPad 380, the power of a desktop meets the personality of a ThinkPad.



Features
- Model: Model 26355AA
- Processor: Pentium with MMX technology 166MHz
- Memory - standard / maximum: 16MB/80MB
- CD-ROM speed: 8XCD-ROM
- Disk capacity: 2.1GB (S.M.A.R.T. EIDE)
- Multimedia functionality
- Display: 12.1 inches 800x600-FRSTN (fast response super twisted nematic)
- Battery Life: Li-ion/20hrs
- Port Replicator connector
- Weight: 3.2Kg Height:62mm Width : 300mm Depth: 233mm
- Installed operating system : Microsoft Windows 95
- **Includes Microsoft Office 97 Small Business Ed. (Worth over $500)**

IBM101 ThinkPad 380ED **$4599**

IBM ThinkPad 380D

All-in-one convenience, versatility and power. The new integrated design offers a diskette, CD-ROM and hard disk drive in one convenient package. Add a powerful Pentium processor, brilliant 12.1" display and spacious hard drive. With the ThinkPad 380, the power of a desktop meets the personality of a ThinkPad.



Features
- Model: Model M6353AA
- Processor : Pentium with MMX technology 166MHz
- Memory - standard / maximum: **32MB**/80MB
- CD-ROM speed: 8XCD-ROM
- Disk capacity: 2.1GB (S.M.A.R.T. EIDE)
- Multimedia functionality
- Display: 12.1 inches 800x600-FRSTN (fast response super twisted nematic)
- Battery Life : 2.5 hours Li-ion
- Port Replicator connector
- Weight: 3.1Kg Height: 62mm Width: 300mm Depth: 233mm
- Installed operating system : Microsoft Windows 95
- **Includes Microsoft Office 97 Small Business Ed. (Worth over $500)**

IBM100 ThinkPad 380D..... **$5499**

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The last thing you need is more work – so Your Eyes Only protects your confidential files automatically and transparently. It prevents unauthorised users from tapping into your computer files, but that's not all: It actually stays with your files, wherever they go. Unauthorised users can't. It's that simple. Unique patent-pending SmartLock encryption makes security totally automatic. Just designate which directories you want to secure and the files in those directories become automatically decrypted when you open them with passwords.

Designed for Microsoft Windows'95

Academic pricing available

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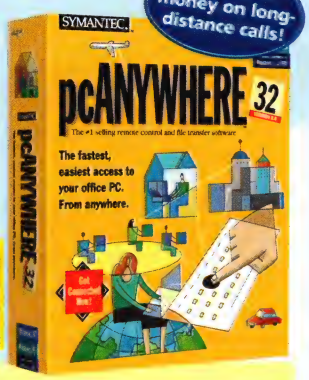
SYM061 Norton For Your Eyes Only 4.0 Win 95 3.5" **$129**

SYM004 Norton For Your Eyes Only 4.0 10 User Win 95..... **$995**

pcAnywhere

Easy remote access to PCs from anywhere, anytime!

Saves you money on long-distance calls!



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EDUCATIONAL pricing AVAILABLE

Features

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- SpeedSend– Transfer only the parts of the files that have changed. Fast.
- Optimised desktop– Unique speed options disable host wallpaper, screen savers and full window dragging, for faster remote control.

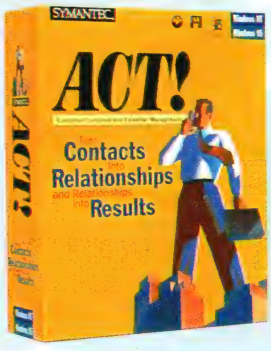
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SYM170 pcAnywhere V8.0 ..... **$199**

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Get ACT ! Get Results !

Complete customer & calender management



Turn contacts into relationships and relationships into results with ACT!™ for Windows. A ready-to-use contact database and integrated calendar make ACT! the most complete solution for effectively managing your business relationships. Know your clients well. ACT! gives you instant access to important facts about your clients and customers. Collaborate with others. ACT! makes it easy to share information with other team members for more effective sales calls. Plus, ACT! has networked calendar functions that make it easier to schedule meetings.

EDUCATIONAL pricing AVAILABLE

Features

- Flexible customer database– Get started right away with 70 preset user fields
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YOUR FAXES WILL LOOK GREAT. AND SO WILL YOU.

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Designed for Microsoft Windows'95

Academic pricing available

SYM068 WinFax Pro V8.0..... **$125**

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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HOT DEALS

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

M.Y.O.B.

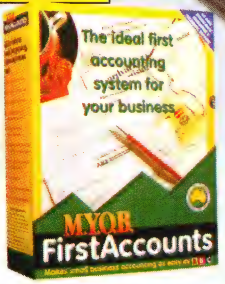
Australia's Own World Class Accounting Software

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Your ideal first accounting system. M.Y.O.B. FirstAccounts makes it easy for you to track income and expenditure, reconcile bank statements, create and print invoices, statements, and purchase orders, track who owes you money and who you owe money to. Produce Profit & Loss and other key reports with a mouse click.

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Unlike personal finance programs M.Y.O.B. FirstAccounts is designed exclusively for business. It has the features small, but growing businesses need. You can easily move up to M.Y.O.B. FirstAccounts with out re-entering any transactions.





MYO025 M.Y.O.B. FirstAccounts **$179**

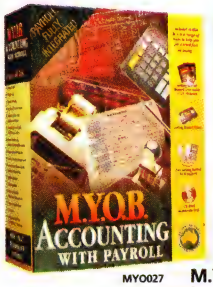
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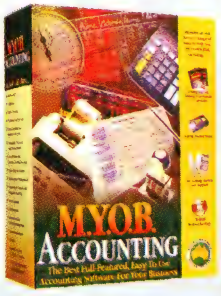
MYO027 M.Y.O.B. Accounting with Payroll **$489**

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Bulging with powerful features yet is just as easy to use as all M.Y.O.B. products. It's the perfect partner for growing business and has class-leading reporting, inventory and purchasing management as well as unmatched flexibility.

Features include General Ledger, Chequebook, Sales & Receivables, Purchases and Payables, Powerful Inventory management with automatic build, buy and back-order. Includes over 100 management and financial reports.

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MYO026 M.Y.O.B. Accounting **$349**

Business Planner

Let Business Planner create winning Business Plans for you

Businesses don't plan to fail they fail to plan



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Designed for Microsoft Windows'95

- Easy to use
- Window driven to step you easily through the business planning process
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- A fully integrated word processor and spreadsheet facility is provided
- Additional facilities include: the ability to have multiple plans open, the ability to import and export text, documents, spreadsheets and graphs
- An on-line help and a comprehensive glossary of planning terms are also supplied
- Runs on all versions of Windows
- Developed and produced in Australia especially for SOHO businesses

Business Planner helped us create our winning Business Plan *KSA and Associates*

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The letters are great and would save any business person hours of time *Cumberland Press*

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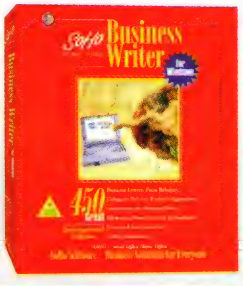
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SOH001 Business Planner **$129**

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Always have at hand the perfect marketing and business letter for your daily needs

Easy to use Business Solutions designed especially for SOHO businesses



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- Documents are stored in an on-line data base and can be retrieved into business planners own word processor or your own
- Anon-line help and glossary of business terms are also supplied
- Runs on all versions of Windows
- Developed and produced in Australia especially for SOHO businesses

Developed and made in AUSTRALIA

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Visio Standard 5.0

The smartest way to create all your business diagrams

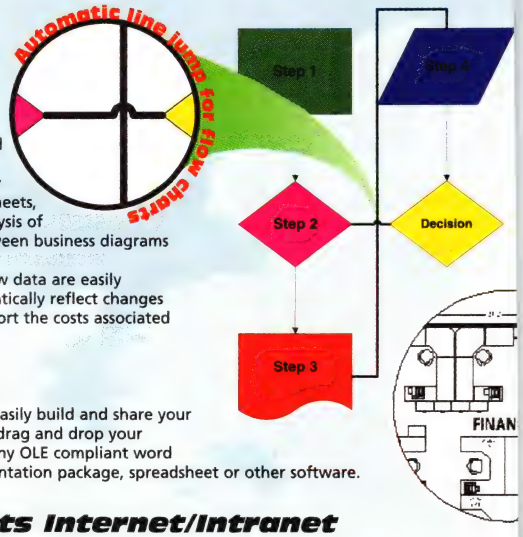
With Visio you can easily create any kind of business diagram - everything from timelines to network diagrams to office layouts.

VISIO



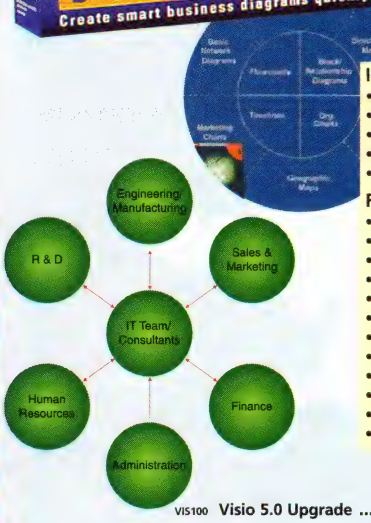
Diagrams for all business users

Visio Standard is designed to help increase the productivity of mainstream business users by allowing them to easily communicate and track work projects and flow, reporting structures, and concepts or systems. Visio Standard allows business users to visualise information commonly stored and distributed in databases and spreadsheets, thus avoiding complex and time-consuming analysis of data and figures. In addition, dynamic links between business diagrams and the databases and spreadsheets that hold the raw data are easily integrated - so an organisation chart can automatically reflect changes in an employee database, or a flowchart can report the costs associated with a new process.



Microsoft compatible

Visio is Microsoft compatible enabling you to easily build and share your business diagrams. Best of all you can simply drag and drop your diagrams into any OLE compliant word processor, presentation package, spreadsheet or other software.



Ideal for :

- Quality
- Sales & Marketing
- Finance
- Human Resources
- Administration

Features :

- Flowcharts
- Project Timelines
- Block Diagrams
- Relationship Diagrams
- Organisational Charts
- Network Diagrams
- Total Quality Management
- Mid Mapping Diagrams
- Office Layout
- Marketing Charts
- Geographic Maps
- Directional Maps

Supports Internet/Intranet Standards

Visio Standard also helps you get your visual information out to the people you need to via its built-in support for Internet/Intranet standards (HTML and ActiveX) and document management standards ODMA).

ID	Task Name	Start Date	End Date	Duration
1	Launch Product	19/08/97	19/08/97	1d
2	Visit Press	20/08/97	22/08/97	3d
3	Conduct Seminars	25/08/97	29/08/97	5d
4	Place Advertisements	1/09/97	1/09/97	1d
5	Seed Corporate Units	2/09/97	8/09/97	5d
6	Reseller Training	9/09/97	12/09/97	4d
7	Internal Staff Launch	15/09/97	15/09/97	1d
8	Press Release	16/09/97	16/09/97	1d

VIS100 Visio 5.0 Upgrade **$169**

VIS101 Visio 5.0 10 user license pack **$1825**

Designed for Microsoft Windows'95

$249

STOCK CODE: VIS099

Technical

VISIO TECHNICAL

Create and share technical drawings



Visio Technical users are professionals using technical-orientated drawings. Visio technical is ideal for Engineers, designers, and architects who often need to communicate with technical measures and schematic drawings.

Visio Technical includes everything in Visio Standard as well as some powerful new features.

Its ability to import and export DWG/DXF files lets users share their Visio Technical drawings with AutoCAD users, and visa-versa. With Visio Technical's new Database Wizard, you can link a Visio Technical shape or drawing to external ODBC-compliant databases. It includes a 32-bit version for Windows, Windows 95 and NT 3.51 and Office 97 Compliant.

VIS102 Visio Technical Upgrade **$299**

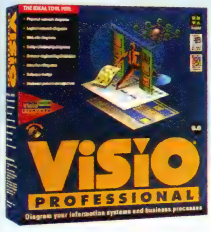
VIS103 Visio Technical 10 user license pack **$3849**

$549

STOCK CODE: VIS107

Visio Professional

For the IT experts!



Visio professional users are IT professionals- such as LAN Managers, IT directors, Database Analysts, Software Developers and Web Masters- and Business Process professionals. They need to visualise the IS infrastructure that underlies their organisation and the process that make their business run.

Visio Professional includes everything in Visio Standard and features great new content: new SmartShapes® symbols, like IDEFØ process shapes, over 350 new network equipment shapes; application development methodologies like Booch, Youdon, Fusion and more; all new wizards for database mapping and design/creation, web site and network diagramming; and improved database connectivity. In addition, Visio Professional includes Microsoft Visual Basic for Applications (VBA), making it even easier to create and distribute custom Visio solutions.

VIS104 Visio Professional Upgrade **$299**

VIS105 Visio Professional 10 user license pack **$3849**

$549

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MYST with Strategy Guide!

MYS001



Only $49.95

Use your wits and imagination to unlock the ancient betrayal of ages past!

For a limited time only.

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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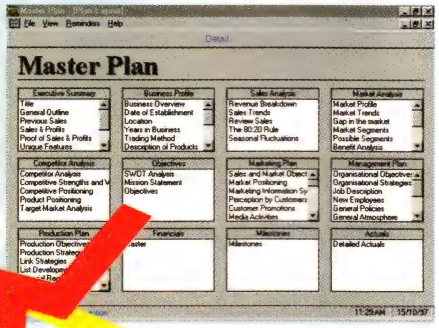
Business & Marketing Plans -The Easy Way

Save 50-90% of the time to prepare a plan!

MAUS MasterPlan is designed for people who need a winning, professional Business Plan instantly. Its simple language reinforces its user-friendliness, explaining every process. A step-by-step question and answer format enables you to construct full financials, text and graphics at the click of a button.MAUS MasterPlan will also easily instruct you how to analyse and develop your business.

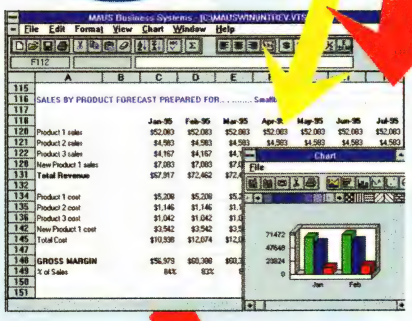
Topics covered include Sales Analysis, Market Analysis, SWOT Analysis, Marketing Plan, Financial Plan, and much more. Australian written and tested in the field, this program has been tailored specifically to meet the needs of Australian users and is suitable for both product and service businesses in any industry. With MAUS MasterPlan, your Business Plans will be more effective, more impressive, and greatly improve your chance of achieving success.

NEW Version & FREE Workbook in Level 2 Software





100% Australian for Australian businesses



Market Analysis

Maus MasterPlan will help you carry out a comprehensive SWOT analysis of your business. Its in-depth analysis of your company, products, competition and industry will enable you to capitalise on opportunities and prepare for potential threats in the marketplace.

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Simply type your key expense and sales assumptions into the financial program and let the computer do the rest! Statements automatically calculated include Profit & Loss and Cash Flow statements, Sales Forecasts, Break-Even Analyses and Graphs. Just released, the new version even includes a Balance Sheet, Ratio Analysis, Actual v's Budgeted Comparisons and new user friendly Financial Wizards.

Runs on Windows 3.1 & Windows 95

Key Benefits

- Creates complete Business & Marketing Plans
- Suitable for business people of all levels
- Creates full financials & graphs
- Includes a simple step-by-step tutorial

Key Uses

- To Raise finance
- Increase profits
- Manage expansion
- Start a new business
- Impress your boss



What the Press are Saying

"The brilliance of this system is that you're led through the entire process step by step... the results will be as good as anything a professional would have provided for you"
Your Computer Magazine

"(MasterPlan)... is a business tool par excellence, turning a grim chore into a fast, pleasant exercise... Extensive templates make the program a breeze to use"
Australian Small Business & Portfolio

MAUS MasterPlan – The market leader!

- Finalist 1995 & 1996 - Channel 9 'Small Business Show' software awards contested by over 400 companies.
- 100% Australian with 1000's users across Australia.
- Used in TAFE & University courses Australia wide including MBA Programs.
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- Used by Agribusiness students at Melbourne's Monash University to win an International Business Planning contest.

Product Summary

- MAUS MasterPlan - Level 1 (Standard) : Software to help you prepare a simple Business Plan only and a full set of accompanying financials. Suitable for loan applications.
- MAUS MasterPlan - Level 2 (Professional): Software to help you prepare either a simple Business Plan or a more detailed Business Plan which incorporates a full Marketing Plan and analysis. Includes full financial analysis, a follow up program which doubles as a Time Management tool and a FREE Business Planning workbook. Suitable for loan applications, analysing and improving an existing business, launching new products, or starting a new business.

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HIL001



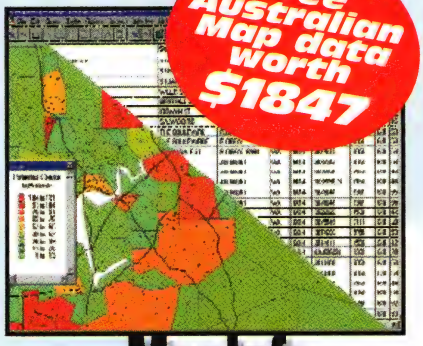
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MapInfo Desktop

The power to make better decisions



Free Australian Map data worth $1847

Analyse and understand your business data with remarkable clarity and speed.

Uncover hidden opportunities you knew were there but could not see.

Reveal - By layering your data together with the help of maps, MapInfo Desktop creates a picture of your business revealing new relationships, patterns, and trends.

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Too much information is locked away and hidden from view inside spreadsheets and databases. They hold your data. But they're not giving you the whole picture.

MapInfo Desktop unlocks information. It reveals patterns, trends and opportunities you didn't know were there. It turns your Excel, Lotus, dBase and ASCII databases into easy-to-use graphic business tools to help you make smarter, more informed business decisions and more powerful and effective business presentations.

And to help you make even more sense of your data, included is Australian map data including postcode shapes and more, valued at **$1847 - Free.**

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- See exactly where your best prospects live
- Study sales trends and patterns
- Direct mail analysis
- Test marketing
- Choose the optimal site for a business location
- Analyse real estate data
- Analyse marketing programs
- Expand into new markets
- Track insurance risks

Distribution/Routing
- Canvassing
- Delivery/Pickup
- Distance calculation
- Route planning

Government
- Resource allocation
- Public Opinion polling
- Tracking public works

Emergency Services
- Call scheduling
- Hazardous materials control
- Fire hydrant location

Dispatching
- Address location
- History of activity
- Nearest station
- Zone Analysis

Analyse - Suddenly, you can see, analyse and understand your business data with remarkable clarity and speed

Uncover - Uncover hidden opportunities you always knew were there, but simply didn't have the tools to see... that's the power of desktop mapping.

Reveal - By layering your data together with the help of a map, MapInfo Desktop creates a picture of your business that is truly revealing. New relationships, patterns and trends begin to emerge, helping you to make faster, smarter, business decisions.

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- Open cabinets on read only media-supports read-only media such as networks, removable drives and CD ROM's allowing you to protect your documents form being modified as well as allowing multiple user access to the file cabinet at the same;
- Enhanced auto search - search for the name of the folder, or drawer as well as the document.

Designed for Microsoft Windows'95

STOCK CODE: DOC002

$219

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- Backup, restore and archive all your papers! Includes fax management, copies,OCR capabilities and much more!

Customers love PaperMaster!

"A fantastic product - This product is great for my business" *Gary Parkin* - Lansdale

"Much better than the software that came with my product" *Bob Cutter* - Chicago

"Anyone that owns a scanner should own PaperMaster. Without it, it's like buying pencils without erasors. Thank you for a great product!" *Jeff Girard* - Norcross

"Of all the lousy software that touts its Windows 95 compatibility and that are really useful, I can only say that your product was the best purchase I've made...You have a great product, and it loaded so easily that I had to check it!". *Mark Yoshihara* - Sacremento

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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Toolkit for Quality Assurance

Quality Assurance for your Business - ISO 9001 / ISO 9002

TQA includes all the tools you will need to develop a Q.A. system - just add your unique knowledge of your business!

Increasingly, businesses worldwide are recognising the benefits of implementing a Quality Assurance system - but many others are concerned at the time and cost that can be involved.

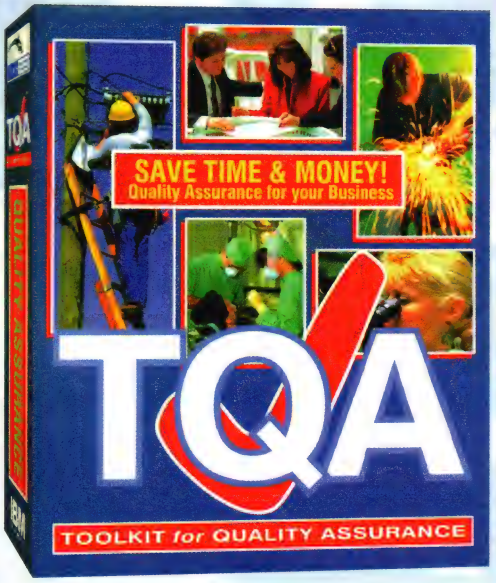
Qudos - TQA is a tried and tested solution to introducing your own Q.A. System - quickly, without fuss, and at very low cost!

Qudos TQA provides you with templates to develop your system documents. These are designed to suit your choice of Windows word-processor (Microsoft Word 6.0, Word Perfect 6.0. Microsoft Works 3.0 and above). They include: - a complete sample quality manual, a selection of sample procedures, template forms, minutes, signs and labels, plus a complete system checklist. To make your job even easier - Tech Tips are provided on the use of all 3 Word Processors!

A comprehensive guidebook is included to assist you in customising the templates to suit your business. It covers all relevant clauses of the international quality standards - ISO 9001 / ISO 9002, the audit and certification process, plus case studies on various industries.

On-screen training presentations for management and staff are also included.

Q.A. is simply good business practice. Most companies and organisations will already have some elements in place Qudos - TQA allows you to incorporate existing documents into your Q.A. system. Many systems based on Qudos-TQA are in use throughout the world and have helped a wide spectrum of users to achieve lasting benefits, external certification, and industry awards.



FEATURES
- ✔ Low price - only a fraction of typical consultant fees!
- ✔ Covers all ISO 9001 / ISO 9002 standards
- ✔ No need to learn new software
- ✔ Flexibly integrate existing documents
- ✔ Work at your own pace
- ✔ Can be used in any industry or profession.

Designed for Microsoft Windows'95

AUSTRALIAN MADE

TQA001 TQA **$379**

ReachOut - Remote Access

Reach Any PC, From Everywhere, Everyway

Away from your office, but need remote access to files, data, or application from your PC? It's easy with the award winning ReachOut 7.0 from Stac. ReachOut is the only all-in-one box solution to provide remote access from, and to virtually any PC running Windows NT, Windows 95, Windows 3.1, or DOS.

For after hours workers, business travellers, telecommuters, home office workers, mobile executives, road warriors, and held desk personnel. Access all files, applications, and databases. Ideal for sending and retrieving important files, editing documents, updating spreadsheets, chatting, or helping remote users.

From everywhere you want to be, Stac's ReachOut 7 provides secure remote access to all files, applications, and databases back on your office PC, your network, or any PC you are designated to access.



Don't have ReachOut with you? No problem! Simply log onto the Internet, use a leading browser to download a ReachOut Passport Plug-in or ActiveX, and within seconds you'll be directly controlling your office PC.

Fast Secure Remote Access

Numerous, award winning security features assure exceptional password, callback, IntruderGard lockout, encryption, and virus checking procedures. ReachOut also offers automatic installation, connection wizards and scripts, and simple drag and drop file transfer.

ReachOut is so fast that using it is just like sitting in front of your desktop and with ReachOut Passport you can remotely access your Internet connected PC using popular web browsers with lighting speed. There's no need to even take ReachOut with you.



ReachOut is a proven winner - outdistancing all other brands in "Choice", "Best", "Recommended", and "First" awards from major computer publications.

Best of all ReachOut is easy to set up and use.

Stac®
www.stac.com

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*Full product as shown - OEM packaging. Packaging shown for display purposes only.

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A collection of professional colour clipart

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Manage your diary, contacts, meetings and communications via the Internet.

3. **Bodyworks V3**

Learn all about the human body with multimedia guide.

4. **TurboCAD V1 Windows**

The most significant release of any CAD software this decade

5. **EZ Language Version 1**

EZ Language V1 is the fun & easy vocabulary pronunciation tutor for 7 different languages

6. **Leonardo the Inventor**

A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

"Call our friendly, knowledgeable sales staff"



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ViaVoice

IBM Voice Dictation for Windows 95/Windows NT 4.0

Talk to your computer naturally

Via Voice uses continous speech technology so you can speak without pausing between words. You can now create more text in less time!

ViaVoice for Business

Work better, smarter and faster. Everyone in your organisation who creates documents can benefit from this simple yet advanced technology. Continous speech helps produce documents quicker and more efficiency, whether you are creating reports, memos, letters or e-mail.

ViaVoice for Home

Keep up correspondence with family and friends.

ViaVoice for Education

Complete coursework ahead of time. Via Voice speeds up creation of essays, theses and projects.



What the press is saying!

"IBM...had strong recognition, was easy to use." - INFOWORLD
"... its contextual analysis shows the way for other speech recognition programs..."- PC PLUS
"... this (Voice Type 3.0) is the best voice recognition program around."-PC Advisor
"IBM... confirms its standing as the leader in voice dictation."- COMPUTER SHOPPER

Key Features

- Continous speech for increased productivity.
- Dictate directly into Microsoft Word (version 7 or 97)
- Work with leading applications.
- Adapts to the way you work.
- Multiple users.
- Shortcuts.
- Leading Accuracy
- Context recognition.
- Large Vocabulary
- UK English spelling
- Ease of correction
- Includes noise-cancelling headset microphone.

Limitaion: ViaVoice and all its files should not be compressed with disk-comprseeion utilities.

Here's what you get with ViaVoice:

* Light weight, noise-cancelling headset microphone
* Program software CD-ROM
* A quick reference card with frequently used commands
* Booklet containing Start-Up information and support iformation, information regarding the family of IBM speech products.

System Requirements

Windows 95 or Windows NT 4.0
Pentium® 166 (equivalent or faster)
Recommended- Pentium® 150 with MMX™ (equivalent or faster)
32MB RAM for Windows 95
48MB RAM for Windows NT 4.0
120 MB available hard disk space
Creative Labs Sound Blaster® 16 (100% compatible) or IBM Mwave sound card

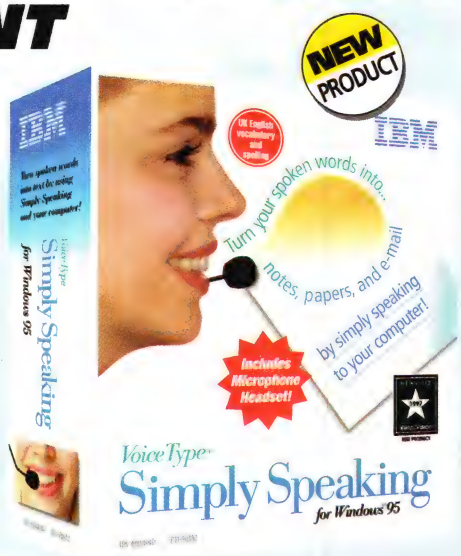
IBM074 ViaVoice **$249**

IBM Voicetype Simply Speaking for Windows 95 & NT

IBM's new dictation software, Voicetype Simply Speaking, is for anyone who would rather talk than type. Imagine sitting in front of your computer and simply saying what you would normally type. Just plug in the headset microphone, which is included in the box, complete the easy installation process and start using your computer in a new, fun and productive way.

Voicetype Simply Speaking uses IBM's award winning Voicetype speech recognition technology and is the result of more than two decades of IBM research and development expertise. This means that every component of the program has been developed and tested to the highest industry standards.

Voicetype Simply Speaking works on desktop and mobile computers and is ideal for students, home computer users and small offices. It requires Windows 95, and a Pentium 100 MHz computer with 16 MB RAM, 38 MB of free hard disk space, a double speed CD-ROM drive, and a SoundBlaster 16 or MWave compatible sound card.
Now virtually anyone can start talking to their computer with IBM Voicetype Simply Speaking - it's fun, fast and easy.



Whatever you normally type, you can simply say it with Voicetype Simply Speaking

* Catch up on correspondence
* Dictate e-mail
* Complete Essays, theses, reports and more!
* "Simply speak" lesson plans, lectures and speeches
* Finish writing that book!

Typical Uses

* Correspondence
* E-mail and faxes
* Reports
* Essays and assignments

Features:

- Typical accuracy of over 95% after optional enrolment
- Voicetype Simply Speaking learns as you use it, steadily increasing in accuracy
- Recognises 'discrete' speech (speaking with a slight pause between words) at speeds of 70-100 words per minute
- Includes a vocabulary of 30,000 UK English words, with room for 27,000 additional words
- Dictate with your hands and eyes free
- Full audio playback of your dictation if required for corrections

Designed for Microsoft Windows'95

STOCK CODE: IBM070

$85

IBM071 Simply Speaking Gold **$165**

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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Lotus SmartSuite 97

The only desktop solution for your team!

SmartSuite 97 delivers a complete set of up-to-date, 32-bit applications specifically designed to take advantage of Windows 95 and Windows NT. Each application provides support for long file names, drag and drop, multitasking, and many of the other features of these advanced operating environments.

Office suites have changed substantially since the category in the late 1980s. From loose collections of applications, such as spreadsheets, word processors and databases, suites have evolved to offer consistency among applications, cross-application integration, and streamlined access to applications, files and tools. SmartSuite 97 delivers specialised tools for finding, publishing and sharing Internet information. It also features Team Computing which defined the standard for desktop based collaborative tools. SmartSuite 97 delivers advanced workflow, cross applications automation,and more aggressive exploitations infrastructures with full 32-bit applications which exploit the operating environment.

With SmartSuite 97 you have tools to find and retrieve all the information you need. Users need to personalise their applications and much of SmartSuite is configurable to suit your individual needs.



Designed to take advantage of Windows 95 & Windows NT

The suite that brings the world to your desktop!

SmartSuite 97

- **Lotus 1-2-3 97** is a completely redesigned, 32-bit spreadsheet that delivers a host of new and enhanced capabilities to automate everyday tasks and simplify processes.
- **Lotus Word Pro 97** provides users all the tools they need to quickly and easily create powerful, compelling, great-looking documents.
- **Lotus Approach 97** leads the database world in delivering an unparalleled combination of ease-of-use and power.
- **Lotus Freelance Graphics 97** continues its long tradition of simplifying the creation and delivery of highly effective presentations.
- **Lotus Organiser 97**, the award-winning personal time management system, is now a complete 32-bit product with support for Windows 95 and Windows NT.
- **Lotus ScreenCam 97** is a fast, easy way for users to show what they mean when they can't be there in person. With ScreenCam, a PC acts as a VCR to record every on-screen click, scroll, and action. Captions and sound can be added to create mini-movies, delivering marketing messages, on-line tutorials, or product demonstrations. These on-line movies can be shared with anyone, even if they do not have ScreenCam installed. ScreenCam is a completely redesigned, 32-bit application.
- **Lotus SmartCenter 97**, the Suite's customisable command centre, keeps users organised and gives them ready access to their work-in progress, calendar and address book, and even the Internet. Just a click away, SmartCenter's drawers provide a central place for users to get the latest news and weather, organise the day's work, find reference material, or write themselves a reminder. New drawers in SmartCenter 97 give users fast automatic links to the Internet to search for information and favourite bookmarks, and get just-in-time help from Lotus Support Pages on the Web.

Every application in the suite includes a host of innovations and improvements designed to help users:

- Increase their individual productivity
- Access data from anywhere
- Leverage the power of the Internet and Intranets
- Share and collaborate more efficiently

Lotus

STOCK CODE U/G CD: LOTS00

U/G $339

IBM Office-in-a-Bag

The total software solution from IBM, Lotus and World Book

Plus a Free Sydney 2000 Games Briefcase

The IBM Office-in-a-bag contains all the software you'll need to improve the way you work with your computer both at home and in the office. With this wide range of award-winning software, your PC productivity, security and reference worries are over!

IBM VoiceType Simply Speaking – You talk. It types.

Turn spoken words into letters, notes, papers and e-mail by simply speaking to your computer. Including a high quality microphone headset, Simply Speaking allows you to dictate to your computer at 70 to 100 words per minute with over 95% accuracy!



Lotus SmartSuite 97 – The best suite for today's connected world

This internet savvy suite brings the world to your desktop. SmartSuite 97 includes six 32-bit Windows applications:

Lotus Word Pro word processor, Lotus 1-2-3 spreadsheet, Lotus Approach database, Lotus Freelance Graphics presentation graphics, Lotus Organizer time management software and Lotus ScreenCam multimedia.

IBM World Book Multimedia Encyclopedia Deluxe Edition – The world at your fingertips.

"The 1997 version of World Book, with its ease of use , information geared to school homework demands, and the best general atlas of any encyclopedia, has streaked past Encarta, Infopedia, Grolier and Cromptons in the best General Encyclopedia for Students' stakes" Australian PC User, September 1997.

IBM Antivirus Desktop Edition

IBM Antivirus is one of the industry's leading virus detection and disinfection tools, automatically detecting over 8,000 known viruses, and using heuristic detection techniques to detect any number of previously known viruses. Includes free updates from the Net

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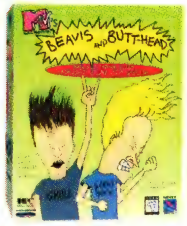
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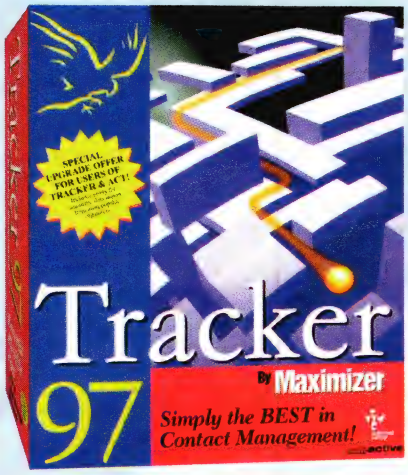
Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

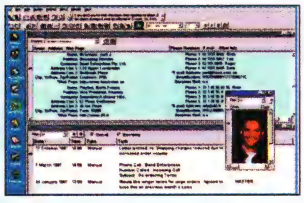
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Simply the BEST in Contact Management!

NEW VERSION



Tracker is the award winning way to keep up with your contacts and find new prospects. Call up any information almost instantaneously, from names, numbers and addresses to personal information. Tracker keeps a detailed running history of all your contacts, including letters, phone calls, meetings and more. With Tracker nothing falls through the cracks, so you'll never miss another opportunity.



Link to the Internet and Email

You're just a pushbutton away from the the Internet and your favourite email applications or Web browsers. There's no need to exit Tracker! Download Internet files or messages right into your Tracker customer files and attach email to contacts.

Stop Juggling Software!

You can do everything from Tracker! Create your own macros and toolbars to launch your most commonly used functions and software programs. DDE and OLE support lets you link your customer records to spreadsheets, documents, graphs, photos or multi-media files in other applications.

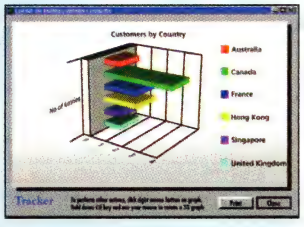
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$259

Call for licence pricing

Networkable for your Whole Sales Group

Tracker is the ideal tool for sales force automation. It"s networkable right out of the box, with group scheduling, communications and other features that turn your sales force into a lean, mean selling machine.



Receive and Send Email Automatically

Now you never have to leave your Tracker Desktop. And, if it recognises the sender's address, Tracker automatically attaches the messages to that sender's file in the address book! No more searching through poorly organised email filing cabinets.

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With Tracker, you're only a split-second away from any customer information you need. Just enter a name, date or keyword. Tracker delivers the information in a fraction of the time other contact managers can perform in.

Communicate with the Masses

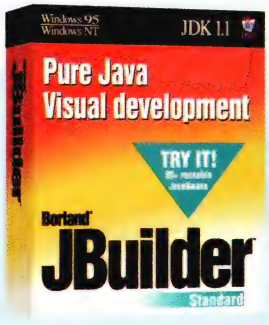
Mass mailings, broadcast faxes and group emails are a breeze with Tracker. Use the mail merge feature to prepare lists for sales letters, group thankyous, etc. Tracker personalises them for you.

Designed for Microsoft Windows'95

Borland JBuilder

NEW PRODUCT

JBuilder delivers 100% Java code creation in a fully scalable, extensible and reliable environment



With its 100% pure Java code creation, JBuilderís most productive visual development environment will give your company a competitive edge. JBuilder provides what your business requires most: scalability, extensibility, and reliability.

JBuilderís best database integrates and support allows the creation of professional business applications that scales from the desktop all the way to the Enterprise.

JBuilderís open architecture based on JavaBeans delivers an unmatched extensibility that lets you create, use and reuse JavaBean components. By supporting industry standards, JBuilder lets you create applications that wonít confine you to a proprietary standard. In addition, JBuilder provides a reliable environment based on the latest JDK 1.1, a solid architecture, and a well-proven compiler technology.

Academic pricing available

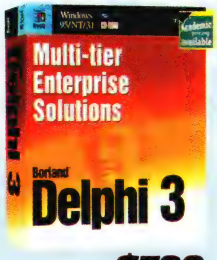
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Features

- Component Designer lets you visually design Java components or applications
- Large library of reusable BAJA/Java Bean components
- Supports 3rd party and user defined components
- Two-way tools keep visual design and source code in sync
- AppBrowser provides fast negation and management of source code.

Borland Delphi 3.0



Delphi 3.0 the high performance RAD tool for windows and C/S development.

Delphi 3 delivers a competitive advantage to the professional developer by combining visual component-based design with the worlds fastest compiled performance and the most comprehensive set of client and server development tools for creating distributed enterprise and Web-enabled applications

BOR147	Delphi 3.0 Professional	$799
BOR168	Delphi 3.0 Professional U/G	$349
BOR151	Delphi 3.0 Professional C/G	$459
BOR148	Delphi 3.0 Client Server	$2599
BOR152	Delphi 3.0 Client Server C/G	$2219
BOR153	Delphi 3.0 Client Server U/G	$1309

Borland C++Builder



Real Visual Development. Real C++ Now, for the first time, use C++ for all stages of development, from prototype to production. With new C++Builder, you get the unprecedented power and control of C++ in a fast, flexible, and visual Rapid Application Development (RAD) environment.

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BOR139	C++Builder Professional 1.0-CD Crossgrade	$349
BOR140	C++Builder Professional 1.0-CD	$849
BOR141	C++Builder Client/Server 1.0 Crossgrade-CD	$2149
BOR142	C++Builder Client/Server 1.0-CD	$2599
BOR143	Learn to Program with C++ Builder 1.0	$89

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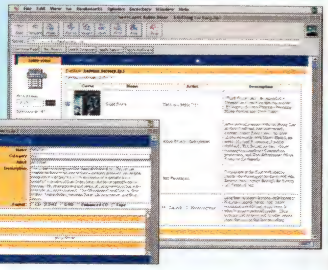
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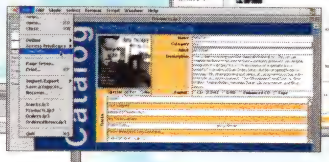
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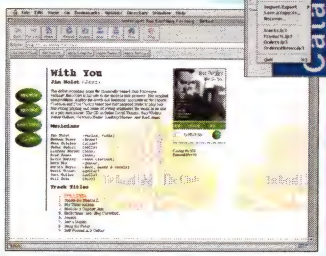
Claris FileMaker Pro 4.0

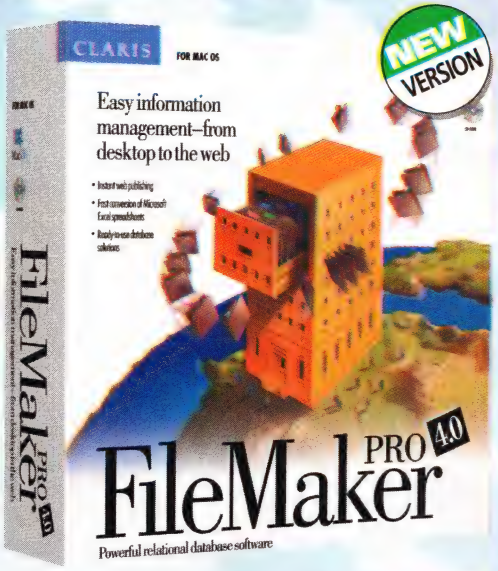
FileMakerPro allows you to create and share relational databases On The internet

New FileMaker Pro 4.0 is a comprehensive data management program powerful enough to organise and use all of your information on your desktop, across your network and over the World Wide Web. Using built-in HTTP functionality, you can instantly make company directories, course listings and other FileMaker Pro databases viewable with ordinary Web browsers: so you don't need to have a Web server or write HTML code. Authorised users can even edit,delete and update records, and with FileMaker Pro 4.0's built in CGI tools and compatibility with Claris Home Page 3.0 software, it's easy to tie interactive databases to your Web page.









CLARIS™

CLA046 FileMaker Pro 4.0 ..... **$289**

CLA045 FileMaker Pro 4.0 U/G..... **$119**

ClarisWorks Office 5.0

The smartest all-in-one software for business, education and home!

All the office you need

ClarisWorks Office Software 5.0 is the office productivity program that speeds you through every business task. ClarisWorks Office 5.0 the all-in-one program which integrates word processing, graphics, spreadsheet and database into one powerful yet simple-to-use program. ClarisWorks Office is also your on ramp to the internet and comes with web page design tools. So you can surf the net, exchange email and create web pages for your business in no time. This prpogram lets you take control of your entire office – guiding you step-by-step through creating news letters, mailing labels and more; linking to URL's from within your documents and launching other applications– all from its handy Button Bar. It all adds up to a powerful set of productivity tools for your business.

ClarisWorks 5.0 Does it all

Whatever you need to do to succeed in business and education it's easier to do with ClarisWorks Office 5.0! With 175 customisable documents to use, the ability to launch other applications, and easy Internet access you will wonder how you managed before you had this integrated program.

Features:

- The ExpressStyle feature redefines the stylesheet metaphor, enabling users to instantly format not only text and paragraphs, but also graphics, outlines and tables.
- FastReport automates searching, sorting, and reporting of frequently used data
- ReadyArt Libraries allow users to store and organise frequently-used clipart images (500 images are included).
- Mail Label, Home Finance, and Certificate Assistants supplement more than 40 other Assistants and templates to offer step-by-step guidance and expert advice on document layout, design and content or help with complex tasks.

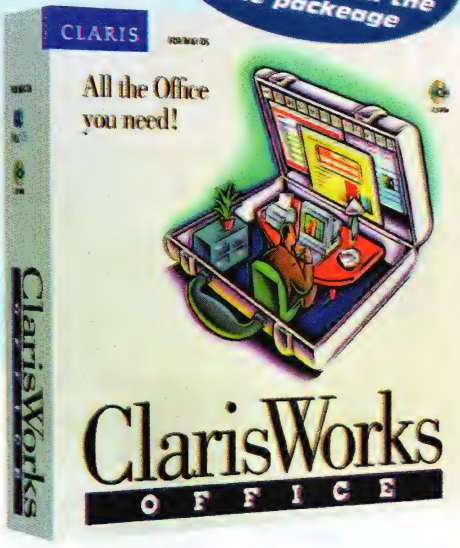
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WinDelete 97

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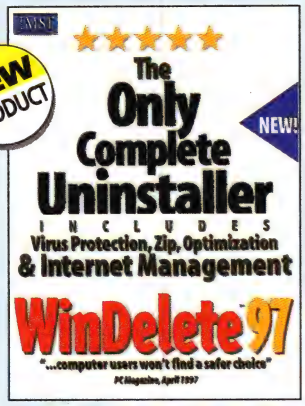
It works with Windows 95 and Windows NT 4.0.

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Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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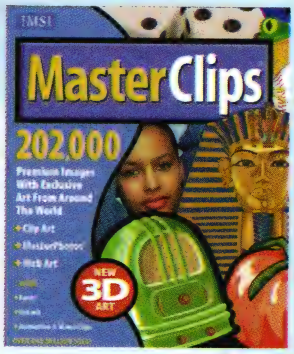
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Dover	47,000	47,000	0	0
MasterPhotos	50,300	47,000	19,000	12,000
Web Art	18,100	1,400	0	0
MasterPhotos Objects	400	0	0	0
MasterFonts	2,000	2,000	2,000	2,000
Sounds	500	500	500	500
Video & Animations	20	20	20	20
Browser	Yes	Yes	Yes	Yes
Editor	Yes	Yes	Yes	Yes
3D Art	Yes			
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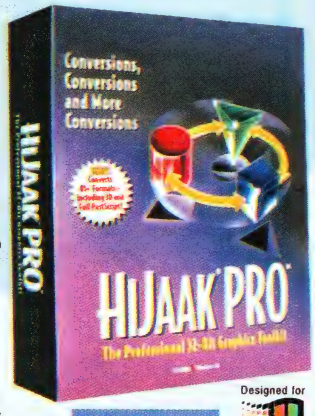
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HiJaak PRO is a powerful program that lets you view, convert, capture, enhance, find and organise images. View over 85 formats without needing the original application. View multiple images in HiJaak PRO's main window. Also create and view extra large thumbnails of images (both 2D and 3D) from within the Windows 95 Explorer. Then launch HiJaak PRO right from the shortcut menu of the file to get the full view. Even view full PostScript Level 2 Files to confirm accuracy before sending them to your service bureau.

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Index

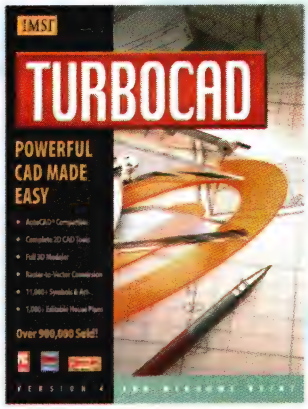
Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

TurboCAD v4!

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TurboCAD V4 offers a powerful solution for the easy creation, refining and communication of graphical ideas through drafting and design techniques. Built on award-winning success, TurboCAD V4 is build around ease of use without compromising CAD functionality or quality. The intuitive Interface allows users to produce professional quality designs and diagrams in minimal time.



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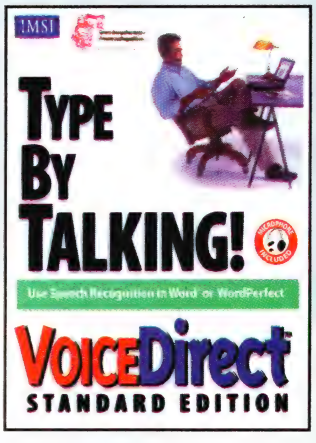
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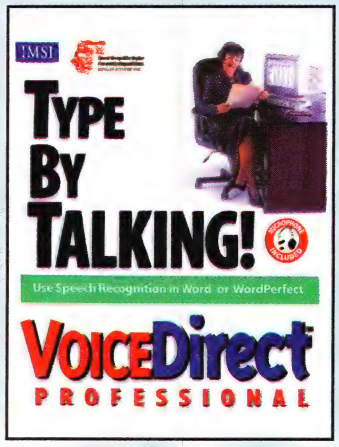
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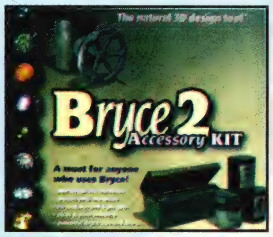
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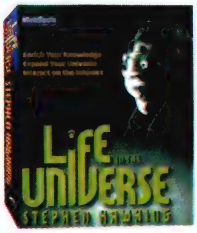
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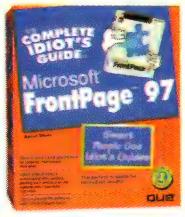
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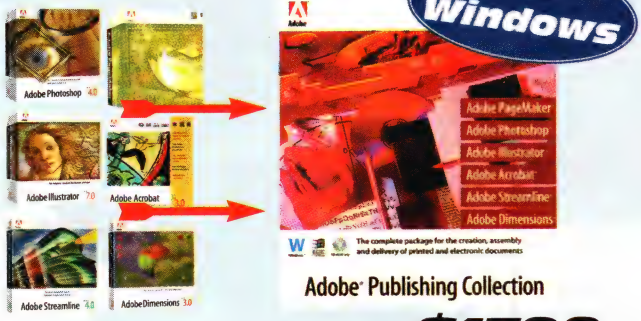
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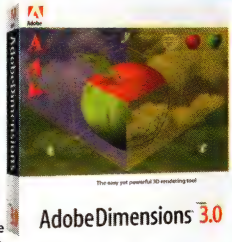


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Adobe Dimensions 3.0 software is the easy yet powerful 3D rendering tool that creates production-quality 3D artwork in both vector and raster formats. Working seamlessly with Adobe Illustrator and Adobe Photoshop software, Adobe Dimensions 3.0 offers the most efficient way to add 3D effects to your designs.

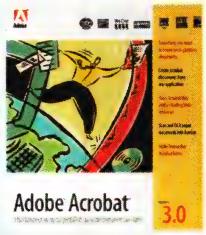
100-Word Description Adobe Dimensions 3.0 software is the easy yet powerful 3D rendering tool that creates production-quality 3D artwork in both vector and raster formats. Working seamlessly with Adobe Illustrator and Adobe Photoshop software, Adobe Dimensions 3.0 lets you drag and drop artwork among the three programs. Adobe Dimensions is easy to learn because it uses the same terminology, tools, and keyboard shortcuts you already know. Powerful new features let you wrap both vector art and raster images around any 3D shape, edit while previewing, designate custom camera angles, and combine simple objects to create complex shapes.



ADO070 **Adobe Dimensions 3.0** **$259**

Adobe Acrobat 3.0

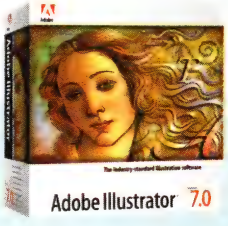
Adobe Acrobat 3.0 software is the fastest way to publish any document on your corporate Intranet, the Web, or CD-ROM. Acrobat 3.0 gives you everything you need—Acrobat Exchange, Acrobat Distiller Acrobat Catalog, and the new Capture plug-in—to create and distribute electronic documents that can be searched, hypertext linked, and even animated with QuickTime movies. Creating Portable Document Format (PDF) files from your favorite word processing software, business application, or desktop publishing tool is as easy as printing, and the results look exactly like the originals. Acrobat 3.0 lets you view and browse PDF files seamlessly within the leading Web browsers and even fill in visually rich, interactive PDF forms. With the Capture plug-in, you can instantly scan and convert any printed document or TIFF image to PDF. And when CD-ROMs created with Acrobat software are uploaded to your Web site, all the links work automatically—no reauthoring is required.



ADO029 **Adobe Acrobat** **$319**

Adobe Illustrator 7.0

With unmatched flexibility, Adobe Illustrator 7.0 is the industry-standard illustration software its new, streamlined interface delivers a truly seamless workflow across Windows and Macintosh platforms and between your favorite Adobe applications. Broad-based file format support, layers, improved precision, speedy image handling, and many more new features make Adobe Illustratorthe ideal choice, whether you're creating for print, multimedia, or the Web.Windows 95/Windows NT 4.0 or Macintosh/Power Macintosh Adobe Illustrator 7.0 version Adobe Illustrator 7.0 for Windows 95/Windows NT 4.0 and Macintosh/Power Macintosh Top New Features Seamless integration for drag-and-drop convenience among Adobe Illustrator, Adobe PageMaker ,and Adobe Photoshop software.



ADO047 **Adobe Illustrator 7.0** **$729**

Adobe Pagemaker 6.5

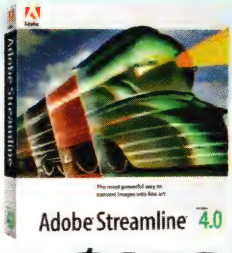
Designed for all your layout needs, Adobe PageMaker 6.5 is the best professional publishing software for printed and on-line pages. Expand your design possibilities with breakthrough features—including document-wide layers and automatic reformatting of publications—and new text and graphics frames. Import Adobe Illustrator designs directly into PageMaker. Use a new interface that looks and feels even more like those in the Adobe Photoshop and Adobe Illustrator programs. And, when you're ready for Internet publishing, simply export pages to HTML format or Adobe Portable Document Format (PDF). No other software makes it so easy to produce sophisticated pages in any medium, using Macintosh, Power Macintosh, Windows 95, or Windows NT 4.0-compatible personal computers.



ADO031 **Adobe PageMaker 6.5** **$979**

Adobe Streamline 4.0

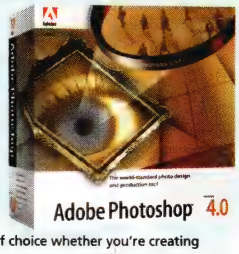
Adobe Streamline 4.0 instantly converts raster images into editable line art. With Adobe Streamline 4.0 software, you can quickly and easily convert scanned black-and-white or color images into PostScript language line art. You'll save hours over time-consuming manual tracing, and you can take advantage of many flexible and powerful controls that autotrace tools in drawing programs don't provide. Adobe Streamline 4.0 works seamlessly with Adobe Illustrator, Adobe PageMaker, and Adobe Photoshop, so you'll be up and running in no time. Featuring new posterization controls, Adobe Streamline 4.0 lets you specify custom colors and tints of colors. Or, let Streamline choose from an unlimited number of colors. An enhanced tracing engine matches path edges exactly. Improved selection and conversion options let you designate different settings for different areas of the same image.



ADO062 **Adobe Streamline 4.0** **$259**

Adobe Photoshop 4.0

The world-standard photo design and production tool. Adobe Photoshop 4.0 software for Macintosh or Windows delivers extensive new capabilities that significantly improve productivity and allow even greater creative experimentation. The new Actions palette lets you record a sequence of commands as an Action List and then automatically "play" the list on part of an image, an entire image, or a folder of images. New Adjustment Layers work like nondestructive masks, letting you experiment with color correction and effects. The new Navigator lets you zoom instantly to specific areas within a large image. Definable guides and grids provide precision control. And with the Free Transform function, you can scale, rotate, move, and add perspective to selections in a single step. With 48 new special effects filters, a new multicolor Gradient tool, and an enhanced interface that improves workflow, Photoshop is the tool of choice whether you're creating images for print, multimedia, or the Web.



ADO030 **Adobe Photoshop 4.0** **$979**

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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For the cost of a local call **Orderline 1300 360 799**

Sales Lines Open 9am til 6pm Monday to Friday and 10am til 3pm Saturday.

VISA MasterCard AMERICAN EXPRESS bankcard

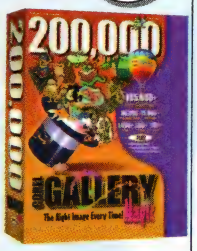
HOT UTILITIES

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

Corel GALLERY Magic 200,000

Make every project special with Corel GALLERY Magic 200,000, a collection of 200,000 images, including 105,000 clipart images, 80,000 photos and hundreds of fonts, animated .GIFs, sounds, video clips and theme sets for the Web. Packed with a full-colour clipart manual, powerful visual file manager and more, Corel GALLERY Magic makes it easy to stay organised. Search multiple libraries with the wizard-style search interface to find the image you need, then drag and drop it into most applications. Preview thumbnails and manipulate bitmap images using the Image Editor.

NEW PRODUCT



Features

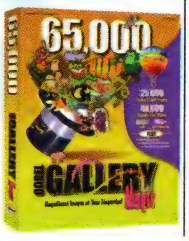
- Over 105,000 vector clipart images (includes 55,000 images new to this product plus 50,000 images from Corel MEGA-GALLERY
- 80,000 low-resolution Internet-ready, royalty-free professional photos
- 15,000 Web images, including theme sets and animated gifs
- Powerful multimedia file manager and the Corel Photo Browser Database

COR400 **Corel GALLERY Magic 200,000** **$115**

Corel GALLERY Magic 65,000

Offering 25,000 vector images, 40,000 photos, 500 fonts, 100 animated .GIFs and 100 theme sets for the Web, Corel GALLERY Magic 65,000 is an ideal choice for all your desktop, multimedia and Internet publishing needs. Enhance brochures, newsletters, presentations, school projects, videos, greeting cards, posters and more. Find images quickly and easily, and simply drag and drop them into your document. A state-of-the art multimedia file manager helps you manage projects efficiently by organising your files into convenient thumbnail albums. Use built-in mini-editors to edit your favourite clipart image or photo. Corel GALLERY Magic 65,000-magnificent images at your fingertips!

NEW PRODUCT



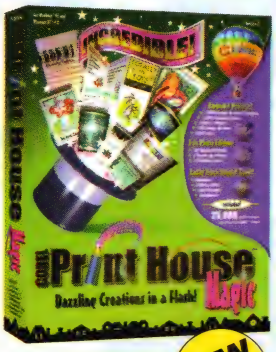
Features

- Over 25,000 clipart images
- 40,000 royalty-free professional photos
- Full-colour clipart manual - also show fonts (photo thumbnails not included)
- Over 500 True Type and Type 1 fonts
- 100 theme sets for the web
- 100 animated gifs

COR401 **Corel GALLERY Magic 65,000** **$49**

Corel Print House Magic, Version 3

Create dazzling greeting cards, banners, invitations, business cards, flyers and more in a flash. Use thousands of fully customisable samples or create your own designs with the assistance of wizards and advanced drawing tools. Touch up or alter your favourite photographs using Corel Photo House 2 and keep track of addresses and special events with Corel Family & Friends?. Let context-sensitive help make complex tasks, such as double-sided printing, a breeze. Browse through full screen previews of each project before selecting one-no more squinting at small thumbnail images. Corel Print House Magic-the all-in-one graphics package that lets you express yourself!



NEW PRODUCT

Corel Print House 3

- Thousands of fully customisable samples
- Fully editable graphics
- Text-merging capability for labels and mailings
- Advanced drawing tools-a subset of the tools found in CorelDRAW 7
- Extensive import/export capabilities
- Support for specialty papers such as PaperDirect
- Double-sided printing
- Multimedia introduction

Corel Family & Friends

- Calendar of shows, holidays, birthdays, anniversaries and user-defined events
- Reminders that ensure special events are not forgotten so cards can be sent out on time
- Simple and easy-to-use address book. Addresses can then be inserted into a Corel Print House 3 project for mass mailings
- Keeps track of CD collections, recipes, etc.
- Complete address book and list manager
- Ability to set reminders for upcoming holidays and special events

New to Print House Magic

- Expanded project capabilities including online greetings and photo projects
- Address book and daily event reminder
- Spell-as-you-go capability
- Context sensitive property bar
- Image Sprayer
- Symbol Sprayer
- Drag and drop Photographic objects and frames
- 25 New brush presets
- Photo House text tool
- Expandable special effects
- Support for pressure sensitive tablets

COR402 **Corel Print House Magic, Version 3** **$79**

Eureka's 115,000 Images

Perfect for Graphic Designers, Desktop Publishers and Web page designers.

A superior collection of images, fonts and sounds complied by graphic artists who were disappointed with what was currently available. The Special browser included enables rapid scanning of 24 objects at a time and a refreshing of these objects with a "mouse" click. Excellent value as the browser is itself worth the price of the package

NEW PRODUCT

An outstanding 6CD set containing the following;

- 36,000 fully scalable vector images
- 4,000 True Type fonts
- 2,000 EPS fonts
- 12,000 Icons
- 36,600 Photos
- 8,600 Animated Gifs
- 480 Backgrounds
- 1,300 Raytraced Images
- 10,000 Tif images
- 5,500 Music and Sound effects

U/G STOCK CODE: NOD002

$59.95

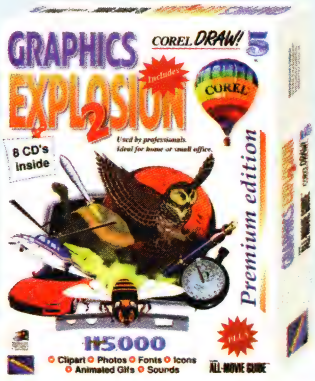


Also available

NOD003 **Eurekas 35,000 images with browser** **$59.95**

Graphics Explosion

The absoulute best value software buy of the year !



One of the world's most powerful desktop publishers has been added to the Eureka's 115,000 Images to create the ultimate desktop publishing program. It also has the unique browser which has removed the need for a separate clip art catalogue. This value packed edition comes with 8 CD's.

Includes 8 CDs

Contains Eureka's 115,000 images plus Corel Draw5 and Corel All movie Guide

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- CorelQUERY™
- CorelSHOW™
- Corel MOSAIC™
- CorelCHART™
- CorelMOVE™
- Corel PHOTOPAINT™
- CorelDRAW™
- CorelTRACE

Corel Draw5 includes: Corel All-Movie guide which is a data base and reference guide for over 90,000 movies and videos.

NOD004 **Graphics Explosion 2 – Premium Edition** **$89.95**

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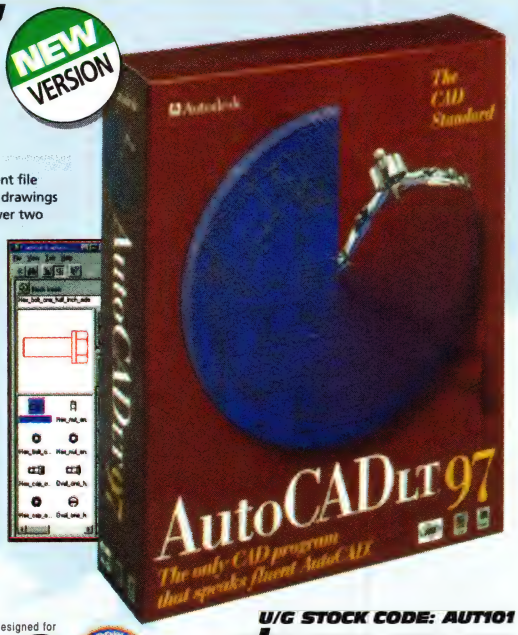
- **Price Pledge** — We will beat any advertised price on any identical product. Subject to terms & conditions PZ
- **Free Gift** — With every order choose a free gift from the selection on page 3.
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- **Free Delivery!** — We do not charge for delivery on orders over $200, providing they weigh less than 3Kg. For other deliveries see chart on page 3.
- **Nationwide Delivery** — We can deliver to any location in Australia, quickly. Whatever it takes, we deliver.
- **Massive Stocks** — Our aim is to fulfil 95% of orders from stock. Our financial stability enables us to hold more than 10,000 items in stock at any one time.
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AutoCAD LT 97

The only CAD program that speaks Fluent AutoCAD

NEW VERSION



No matter how much time you spend creating a design, it's wasted if your co-workers can't understand the ideas you want to convey.

Now introducing AutoCAD LT 97 which is the only low-cost, professional 2D CAD application that has 100 percent file compatibility with AutoCAD, the world's best selling design and drafting software. Whether creating your own drawings or simply need access to CAD documents, AutoCAD LT 97 software gives you instant access to files created by over two million AutoCAD and AutoCAD LT users world wide. Perfect for designers or projects that do not require full-blown AutoCAD capabilities. AutpCAD LT97 works as a dreafting tool for preliminary sketches, detail drawings or final designs. And now it's even easier with our new Content Explorer - for dragging and dropping exisiting images and icons – in addition to coplete Internet tools.

Easy to learn, Easy to Use

Within a short time of using AutoCAD LT 97 you will discover the power and capabilities you'd expect to pay thousands of dollars for.
AutoCAD LT 97 looks and feels like software you are already comfortable using. You'll quickly become accustomed to the new zoom and pan features of the Microsoft IntelliMouse along with the right-click shortcut menu.

Familiar Interface

It is fully compatible with Windows 95 and Windows NT 4.0 and has built-in Microsoft Office 97 capabilities.

Faster publishing

With AutoCAD LT 97's new Content Explorer software, you can annotate your drawings, quickly and easily, which lets you drag and drop commonly used blocks and drawing from the hundreds of full-scale, industry-standard symbols included in the box, or from your company's internal libraries.

Smarter Tools

AutoCAD LT 97 provides new tools to help you gent your job done. AutoSnap automatically locates geometric points during drawing and editing, then signals their location. PolarSnap snaps your cursor to incremental angles and distances when you are drawing or editing objects, so you don't have to enter these details at the command prompt.

Greater Productivity

AutoCAD LT 97 offers dozens of productivity improvements over the last release, including Print Preview, ADI plotter support, and network printing.

Effective Training and Help

The AutoCAD LT 97 learning assistance interactive CD-ROM provides more than 50 lessons you can work through at your own pace. And AutoCAD LT 97's Help system makes finding the information you need as easy as using a Web browser.

New Features

- File compatibility
- Improved Performance
- Drag-and-Drop Content Explorer
- Office 97 Compliance
- IntelliMouse
- Integrated Internet Tools
- Quick Precision Drawing Tools
- Self-Paced Online Training
- Enhanced Printing Capabilities
- Solid Fill
- Draw Order Control
- New Objects
- Object Property Toolbar
- Make Layer Current
- Layer & Line-type Properties Dialog Box
- Improved Text Capabilities
- Object Snap Override
- Command-Line Editing
- Preference Dialog Box

Designed for Microsoft Windows'95

WINDOWS MAGAZINE 1995 WIN 100

U/G STOCK CODE: AUT101

$369

AUT100 AutoCADLt97 ..... **$799**

Partition Magic V 3.0

Reclaim up to 40% of your hard disk & organise your hard drive!

Reclaim Wasted Disk Space

Everyone wants to get the most they can out of their hard disk. But, up to 40 percent of your hard disk may be totally wasted due to inefficient storage methods. PartitionMagic 3.0 increases your usable disk space by shrinking large FAT partitions and restructuring cluster sizes to reclaim up to hundreds of megabytes of lost disk space.



Safely Run Multiple OS's

PartitionMagic 3.0 makes it easy to run multiple operating systems on the same machine without compatibility problems. Explore the new world of Windows 95 or NT while still relying on the security of your current operating system. And PartitionMagic 3.0 includes Boot Manager from IBM, making it easy to select an operating system every time you boot your computer.

Organise and Protect Data

Create a physically separate partition for your valuable data files to protect them from potentially unstable applications. This simplifies backups, especially to devices like ZIP™ drives. And with the transport feature of Uninstaller™, PartitionMagic 3.0 lets you easily move applications from one partition to another with their files and operating system settings in place.

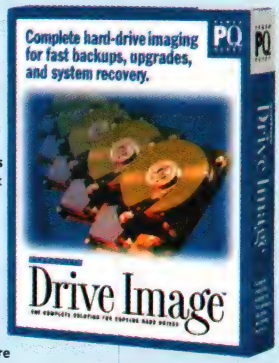
POW022 PartitionMagic 3.0 ..... **$109**

AUS228 PartitionMagic 3.0 Upgrade **$59**

Drive Image

No more risks or hassles, Quick back-ups,and complete system recovery. Fast and easy upgrades

Drive Image is the complete hard-drive imaging solution for hard-drive back-ups, upgrades, and data recovery.



Drive Image lets you easily create a compressed image of file of an individual partition or an entire hard drive. This file can be stored on a network, JAZ, ZIP, CD-ROM, or tape drive an then downloaded to make quick work of backups, disaster recovery, or upgrading to a new, larger capacity hard drive. With Drive Image, image files can be downloaded to drives of the same size or resized to fit drives for a different size and geometry for maximum flexibility.

Drive Images is the fast and easy way to backup recover, or upgrade your hard drive. Using patent-pending SmartSector technology (which copies only used sectors), you can quickly create and store a compressed image file of an entire hard drive, or individual partitions of a hard drive, on a network or other storage devices. Full system recovers is as easy as downloading the image file from storage. If you are upgrading to a new hard drive, the contents of your hard drive can be automatically copied and proportionately resized, saving you hours of re-installation time.

Features:

- Copy the entire contents of one drive to another
- Copy individual partitions or entire drives
- Create and restore hard-drive image files
- Create and store hard-drive image files for backup, upgrades and system recovery
- Change partition size when copying from source to destination

CHK003 Drive Image **$99**

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Idiot's guide to MS Access 97!

ID1004



Only $24.95

Take away the pain of databases. This guide presents all the information and tricks you need to know!

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

IBM Anti-Virus

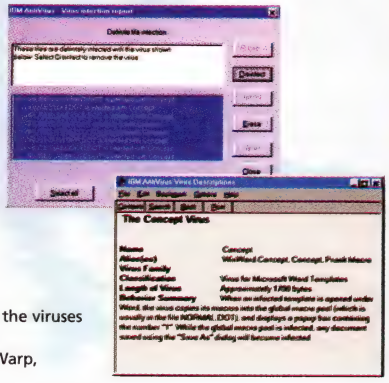
The Most Advanced Protection for an Infectious World

NEW VERSION

No matter how malicious a computer virus is, it doesn't stand a chance against IBM Antivirus. The Software identifies and quickly eradicates more than 10,000 viruses of every shape and form wherever they reside – in memory, on disk, in macro or in a file that someone just downloaded. It and can even recognise viruses that no one has ever seen before. All with unparalleled accuracy and thoroughness.

Designed for flexibility and ease-of-use, IBM AntiVirus offers a graphical interface, 'Install and forget' automatic operation, and free online support and telephone assistance.

the complete version of IBM AntiVirus for each supported operating system is included in this package, as well as a bootable Emergency Diskette to rescue you when a virus prevents your computer from starting



New in Version 3.0
- Office 97 protection
- Fastest virus scanning available
- Enhanced macro virus protection, including Office 97 macros
- International language support

Superior Reliability
- Virtual eliminates false alarms
- Full verification before disinfection
- Disinfects without damage to programs
- Transparent background operation

Comprehensive Protection
- Detects more than 10,000 viruses
- Certified by the NCSA to detect 1000% of the viruses known to be "in the wild"
- Runs on Windows 95, Windows NT OS/2*Warp, Windows and DOS

Most Advanced Protection
- System Shield lets critical applications run safely, even if infected, without spreading the infection
- Heuristic analysis to identify previously known viruses
- Neural network technology to identify unknown boot record viruses



STOCK CODE: IBM064

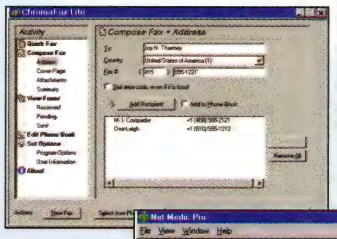
$79

Net.Medic

Your Remedy for Poor Online Performance

Take Control Over Your Corner of the Internet

Net.Medic is a browser companion - software that works with your Internet browser to monitor, isolate, diagnose, and correct problems that affect you while on the Internet. Now you can identify the source of your network bottleneck - PC, modems, your Internet Service Provider (ISP), the Internet backbone, or remote Web site server. Net.Medic identifies problems in split seconds, offers you recommendations for solving them, and in many cases, automatically fixes them for you.





Net.Medic is the personal Internet utility, giving you actionable information that can measurably improve your online performance. Before Net.Medic, you could only talk about your frustration. Now can do something about it.

Identify and Isolate Your Internet Bottlenecks

Net.Medic identifies performance problems and isolates them to a specific component of your unique Internet path - PC, modem, ISP, the Internet itself, or a remote Web site. Net.Medic animates your end-to-end connections, showing you exactly what is occurring across the Internet, including traffic jams and bottlenecks. Is the problem in the network or at a specific server? Is the network congested or the connection slow? Green, yellow and red indicators highlight the responsiveness of each component.

Once a problem is identified, Net.Medic provides you with critical vital signs about the health of the affected component, whether it's your PC, modem, ISP connection, Internet or Web server.

Monitor your Internet Vital Signs

By continuously monitoring activity along your end-to-end connection, Net.Medic tells you exactly what's happening at every critical juncture. Net.Medic reports your throughput, retrieval time, the Web server load and efficiency, as well as network delays and congestion levels.

Remedies Common Internet Ailments

Net.Medic is the only product that automatically eliminates common Internet performance problems before you even encounter them.
For example Net.Medic can detect a hung server condition before you know it exists. When this happens, Net.Medic automatically re-initiate your server request, eliminating long waiting times, manual re-tries, and time-out.

Contacts Appropriate Assistance

If a slow-down occurs at a point beyond your PC or modem, Net.Medic can automatically generate an e-mail message to the appropriate contact requesting assistance - including accurate documentation of the problems you've experienced - and will ask your for permission to send it.

Check your ISP

Net.Medic monitors and reports on the level of service you are actually experiencing.



Optimise Your Environment

Met.Medic continually monitors your ISP connection and Internet conditions, dynamically adjusting your PC and modem configuration to optimise Internet performance.

www.vitalsigns.com

VIT001 Net.Medic **$99**

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*Full product as shown - OEM packaging. Packaging shown for display purposes only.

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A collection of professional colour clipart

2. STARFISH INTERNET UTILITIES



Manage your diary, contacts, meetings and communications via the Internet.

3. BODYWORKS V3



Learn all about the human body with multimedia guide.

4. TURBOCAD V1 WINDOWS



The most significant release of any CAD software this decade

5. EZ LANGUAGE VERSION 1



EZ Language V1 is the fun & easy vocab-ulary pronunciation tutor for 7 different languages

6. LEONARDO THE INVENTOR



A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

"Call our friendly, knowledgeable sales staff"



INTERNATIONAL SOFTWARE WAREHOUSE Pty. Ltd.

EVERYTHING FOR YOUR PC - DELIVERED NATIONWIDE!

The Revolutionary New Way to Get More Hard Drive Space

NEW PRODUCT

Get 150% more space safely and easily



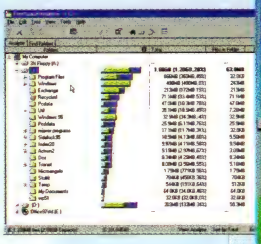
FreeSpace creates hundreds of megabytes of hard drive space by letting you selectively compress files, as well as optimise hard drive clusters. Through these two methods, you'll average 150% more free space for each file you compress! Theirs is no special partitions, no disk doubling, no compressed drives, no special file names and no big slowdowns in system performance. Simply choose the files or programs to FreeSpace, and they look and work exactly the same as before while taking up dramatically less disk space.

Hundreds of Megabytes at your Fingertips
With FreeSpace, you can selectively compress files directly from Windows Explorer or by using a variety of intelligent tools included with the product.
When FreeSpace compresses a file, it also optimises hard drive clusters, managing a major source of wasted space. Files that have been FreeSpaced work exactly as any regular file, with little noticeable slowdown in execution and loading. You don't have to modify Windows, or run any extra programs. And FreeSpace technology works for and kinds of file programs, graphic files, word processing files or databases.

Intelligent tools to help you get more space
With FreeSpace, you're not on your own. Simply use the FreeSpace Manager to hunt down space-hogging files. You'll get a list of the best possible candidates for compression.

Radically different to other compression products
Unlike disk-doublers, FreeSpace doesn't force you to compress an entire hard drive, it doesn't take up lots of memory, nor does it slow your system down. And, unlike the Zip file format, no specially named file is needed. FreeSpace is completely transparent. And best of all, you select the files you want to compress, without having to make any big commitment

Get more from your "clusters"
Every file must take up at least one cluster even if the file is tiny! So clusters almost always have wasted and unused space.
Some companies sell partition software, which partially solves the cluster problem but splits your hard drive up into too many new drives. With FreeSpace, your cluster space is automatically optimised when you compress a file, without having to go through any hassles or headaches!





If you run out of hard drive space, tell FreeSpace how much you need
You're installing a new program, but you can't finish because you don't have enough space, simply tell FreeSpace how much space you need, and you'll get what you need!

Integrated into the Windows Explorer
You can use FreeSpace to find files which are taking up space, or you can simply right-click any file or folder in Explorer, and compress it instantly.

SWS008 **Freespace** **$89**

ZipMagic

The Next Generation Zip Program



ZipMagix includes the patent-pending ZipFolders technology, which safely and transparently turns zip files into Window folders. The contents of zip files you download, receive or create become instantly accessible, so you can view and modify files, run programs, archive files, all with spectacular ease - without having to unzip anything. And every file stays compressed in the zip file, saving precious disk space! ZipMagic fully supports the universal ZIP format, as well as other compressed files like ARJ, LHA/LZH, GZIP, TAR, TAZ, TGZ, CAB and ZOO. Opens all compressed files, even email attachments! You can also open and decode email attachments like BinHex, UUEncode, XXEncode and MIME. ZipMagic includes an Archive Manager. Only ZipMagic has the revolutionary Internet EasyUpdate, which seamlessly updates your copy of ZipMagic to the latest maintenance release.

STOCK CODE: ZIP016

$55

AUS132 **Zip Folders** **$39**

ViaGrafix

ViaGrafix CD-ROM Interactive Multimedia Training



Training for the Office or Home

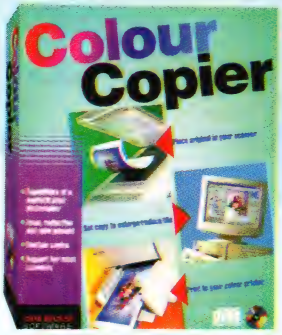
ViaGrafix offers a complete range of interactive tutorials for beginners right through to advanced users. Just select the Interactive Tutorial that's right for you.

- Over four hours of tutorials on each CD
- Review lessons as often as needed

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VIA041 **Learning Microsoft Office (6CD Pack)** **$259**
VIA042 **Learning Windows NT 4.0 (8CD Pack)** **$319**
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Colour Copier

Turn your scanner & printer into a colour photocopier.



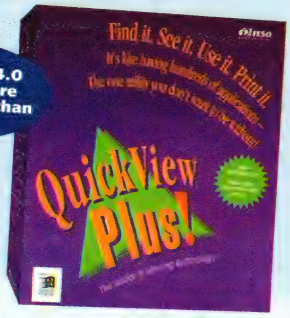
Colour Copier turns your colour scanner and colour printer into a full-featured photocopier. Simply place your original in the scanner and set your copy Features! Large corporations have invested millions in developing the interface for both simple and complex photocopiers. Colour Copier emulates that interface, allowing everyone to produce both simple and complex copies, from the scanner to the printer.

Software comes with position presets or you can create your own. It's so easy!

SWS001 **Colour Copier** **$95**

Quick View Plus

Find it. See it. Use it. Print it.



The Unbelievably Useful Utility for Windows 95/Windows NT
See, copy and print virtually any file - with all formatting intact - even if you have none of the originating applications!
Quick View Plus is the essential utility for every Windows user!
Not only does Quick View Plus seamlessly integrate into Windows Explorer and Microsoft Exchange, it also operates within Netscape Navigator as a plug-in and within Microsoft Internet Explorer as an ActiveX Document viewer.

New Version 4.0 Now More powerful than ever!

INS015 **Quick View Plus** **$89**

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Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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Norton Uninstall Deluxe

Norton Uninstall Deluxe for Windows 95/Windows NT 4.0

Norton Uninstall Deluxe is the safest way to make changes on any Windows 95 or Windows NT 4.0 system, including both removing and adding programs and files. Norton Uninstall Deluxe provides program, file and disk management tools that allow you to safely try new programs, recapture disk space and cleanup your hard drive(s).

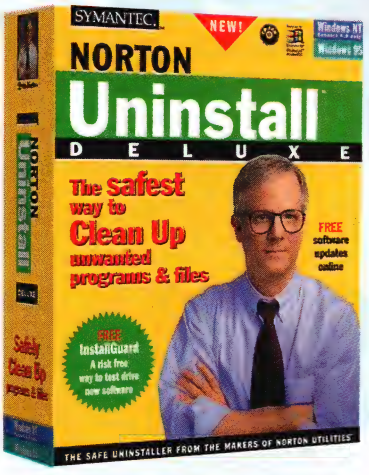
Key Features of Norton Uninstall Deluxe for Windows 95/NT 4.0

InstallGuard — unique to Norton Uninstall Deluxe - enables you † to remove the last installation and return your system to its original state.† All files that were overwritten or changed will be replaced with the original files. This unique "undo" feature gives users a risk-free test drive for any new installation.

SafetyScan ensures accurate knowledge of your system and configuration for a safe and complete Remove, Move, Copy and Store of all applications and files — even those that were on the system before Norton Uninstall Deluxe.

System Monitor provides the ability to monitor installations so you can safely and thoroughly remove them with InstallGuard if you encounter any problems.

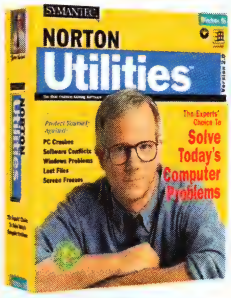
Folder Selection — unique to Norton Uninstall Deluxe - allows you to Remove, Move, Copy and Store by sub folders, not just application group, application or file. This makes it especially easy to remove suite components, or data files that are stored in a folder within an application group



SYMANTEC. Designed for Microsoft Windows'95 Academic pricing available

NOR072 Norton Uninstall Deluxe **$55**

Norton Utilities



Over 15 Million Users World Wide.

The experts choice

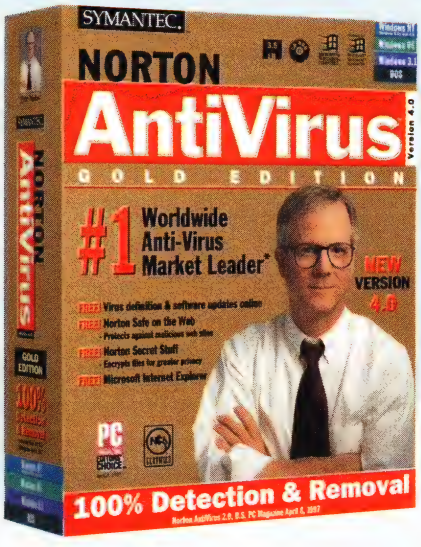
Right there, right when you need it
Norton fixes problems you wouldn't otherwise know were there until it's too late. The system Doctor monitors your whole system and automatically corrects problems before they affect you.

- Protects you against software conflicts, Windows problems lost files,PC crashes, screen Freezes and more
- Stops computer viruses before they damage your computer
- Monitors your favourite Web sites
- Automatically downloads software updates and patches

NOR032 Norton Utilities **$109**

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Norton AntiVurus Gold Edition



Worldwide Anti-Virus Market Leader*

Norton AntiVirus is the virus protection of choice for over 94% of Fortune 500 companies. Whenever you are on the Internet or sharing files via floppy diskor across a network, you run the risk of virus infection. Automatic real0-time protection monitors all potential sources of infection. Just load it and forget it. It's that easy.

SARC Asia Pacific

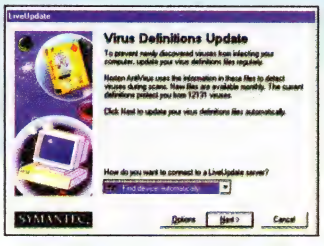
The Symantec AntiVirus Research Centre is teh industry's largest virus research lab with a team of dedicated technicians who work around the clock to identifya nd neutralise new viruses – incliuding the dast spreading Macro viruses.

LiveUpdate

Download current virus definitions free from the Symantec Web site with one click. Schedule future sessions to run automatically. LiveUpdate email also alerts you when new virus definitions are posted from SARC.

Support Service

Symantec's anti-virus products are products are backed by quality support service. Virus information and updates can be obtained by contacting your local Symantec FTP site, Website or BBS via Internet, America Online, Compuserve or Microsoft Network.



Academic pricing available PC MAGAZINE EDITORS' CHOICE

100% Protection & Removal

NOR074 Norton AntiVirus Gold Edition **$89**

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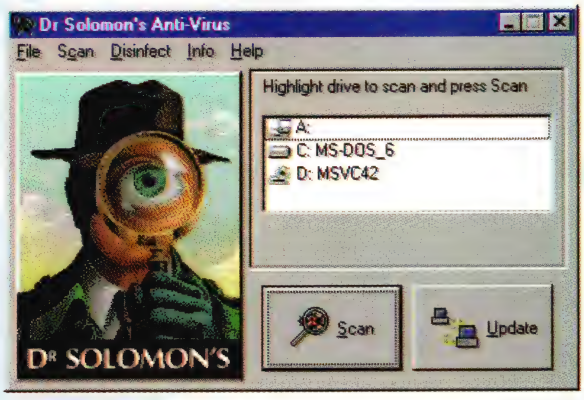
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EVERYTHING FOR YOUR PC - DELIVERED NATIONWIDE!

DR Solomon's Anti-Virus

Now the international best selling virus protection software is finally available in Australia and New Zealand. Dr Soloman's Anti-Virus detects and destroys the most viruses...automatically!



Dr Solomon's Anti-Virus is the only anti-virus product available in Australia that is able to automatically detect and eliminate the over 13,000+ known viruses that are out there, ready to attack your PC.

With over 3 million users worldwide. 24 hour, 7 day technical support and on-line upgrades for killing new viruses it's no wonder Dr Solomon's is trusted by over 3 million people worldwide.

It's the world's most advanced, trusted and widely used anti-virus program.

**Computer viruses are increasing at the rate of 300+ per month.*

DR SOLOMON'S Anti-Virus VERSION 7

"Kills The Most Viruses... Automatically!"

GUARANTEED

Better virus protection than Norton, McAfee, IBM, PC-cillin, VET or your money back.

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HOTKEY

Internet address:
software@hotkey.com.au

Exclusive Dr Solomon's WinGuard scanner and Dr Solomon's NetGuard technology provide 24 hour virus protection from internet downloads, shared files, e-mail, floppies, hard disks and more.

Features

- Unique Technology – Dr Solomon's Anti-Virus employs Advanced Heuristic Analysis (AHA) and Advanced Macro Heuristic Analysis (AMHA) technology to reliably detect new and unknown viruses without creating false alarms.
- Compressed File Scanning – Dr Solomon's Anti-Virus has the ability to scan inside more compression file formats than any other anti-virus product, and scan recursively inside multiple nested layers of compressed and archived files.
- Online Updates – Dr Solomon's Anti-Virus' Automatic Protection Plan delivers a new product monthly with updated scanning technology and virus signatures to ensure comprehensive protection against the 300+ new viruses discovered every month.
- New Interface – a new intuitive interface makes Dr Solomon's Anti-Virus one of the easiest ways to protect users from computer virus attacks.
- Automatic Virus Removal with WinGuard – not only will WinGuard, Dr Solomon's on-access virus scanner, protect against virus attack 24 hours per day, but it can automatically remove any file or macro virus it detects.
- Educates with the Virus Encyclopedia. Gives detailed, in-depth descriptions of "In the Wild" viruses most commonly encountered by computer users.
- Money-Back Guarantee. Dr Solomon's Software is so confident that it offers better virus protection than Norton, McAfee, IBM, PC-cillin or VET, it stands behind its product with a money-back guarantee.
- FREE, unlimited 24-hour virus emergency support with one of its technical experts on the phone and by e-mail.

NIT005 Dr Solomon's Anti-Virus **$89.95**

IMSI Masterclips 35,000

IMS016



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Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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HOT UTILITIES

FULL-STRENGTH, 100% ANTI-VIRUS PROTECTION.

NEW PRODUCT

DETECTION OF VIRUSES IN COMPRESSED AND ARCHIVED FILES



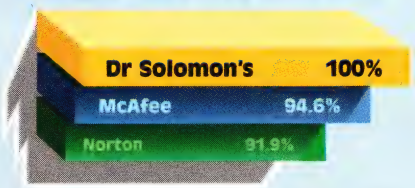
SOURCE — Secure Computing, January 1997
Dr Solomon's is far more advanced in detecting viruses lurking within zipped and compressed files including Internet downloads covering the widest variety of file compression formats.

POLYMORPHIC VIRUSES



SOURCE — Virus Bulletin, October 1996
Polymorphic viruses are the most difficult to detect because each infection looks different. Dr Solomon's detects polymorphic viruses better than all the rest.

MACRO VIRUS DETECTION RATE



SOURCE — Secure Computing, January 1997
Macro viruses represent the newest threat to your computer today, and they're easily shared via documents and email. No other product detects and removes them like Dr Solomon's.



The Best INTERNET VIRUS PROTECTION

GUARANTEED
Better virus protection than Norton, McAfee, IBM, PC-cillin, VET or your money back.

Choose a Free CD with every order!*

*Full product as shown - OEM packaging. Packaging shown for display purposes only.

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A collection of professional colour clipart

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Manage your diary, contacts, meetings and communications via the Internet.

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5. **EZ Language Version 1**

EZ Language V1 is the fun & easy vocabulary pronunciation tutor for 7 different languages

6. **Leonardo the Inventor**

A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

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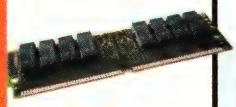
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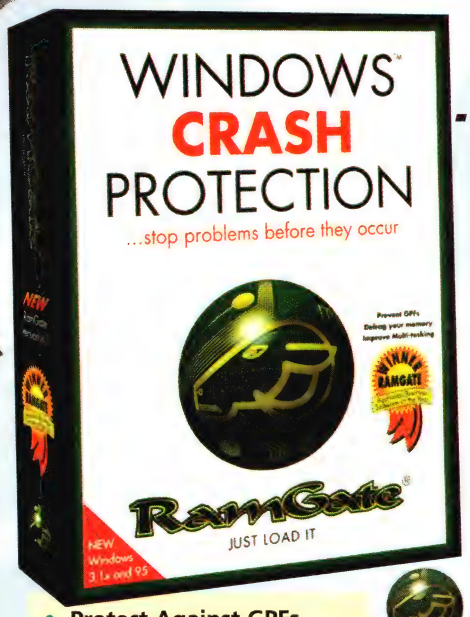
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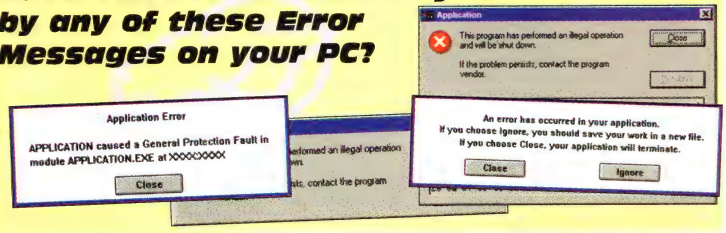
STOP WINDOWS FROM CRASHING!!! WITH RAMGATE!

It's frustrating when your PC crashes and, at worst, loose a files entire contents through corruption. Major problems you can encounter in Windows are:

- **Out of Memory**
- **Insufficient Memory**
- **Out of Resources**
- **General Protection Fault (GPF) - commonly known as a crash**
- **Illegal Operation (Win95 GPF)**

RamGate is a utility which stops Windows from crashing by controlling the way in which Windows applications access RAM, virtual memory and Windows system resources. The basic principle behind RamGate is simple; to use memory and resources contiguously. RamGate ensures that when an application makes a request for memory and resources, it is given a block immediately next to the previously allocated block. Additionally, a small buffer zone is built into the request for, and subsequent allocation of memory resources. This basic allocation method is in contrast to that of native Windows which will take memory and resources from anywhere. Continuous use of memory and resources will provide for a more efficient operation of Windows as well as improved stability. This is why you will be able to safely run more applications than ever before.

Have You Ever Been Annoyed by any of these Error Messages on your PC?



AUS118 RamGate **$59.95**

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
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RESCUE

What would you do if you lost all your data... ...right now?

Data recovery for every Windows 95, Windows, and DOS user.

Rescue Data Recovery Software gives you added peace of mind and handles the greatest concerns of all PC users; drive crashes and data loss! Through its automated procedures and patented "smart" recovery technology, RESCUE helps you to recover one of your most precious possessions; your computer stored information, graphics and data.

Be Prepared...

When disaster strikes reach for RESCUE, the best selling data recovery software for Windows and DOS users. RESCUE is so simple to use. By just pressing a few keys, or with a click of a mouse, anyone can start recovering their own data in a matter of minutes. There's absolutely no technical expertise required!

Your Insurance Against Data Loss

Nothing can stop your hard drive from crashing when its time is due, but RESCUE, like an insurance policy, gives you the peace of mind and the security of knowing your data is safe and available when you need it.

RESCUE Gets Your Data Back, Fast

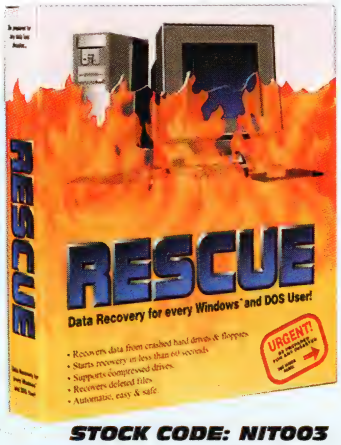
With RESCUE's patented recovery technology you'll automatically and safely bypass the crash to quickly retrieve your valuable data.

Prevent Lost Time, Lost Work

Instead of agonising for countless hours in front of your computer, let RESCUE do the work for you and recover all your Windows and DOS files including: word processing, spreadsheets, databases, graphics, games, deleted or erased files and even data from compressed drives.

Easy to use:

RESCUE is the most advanced, yet simplest to operate, data recovery software in the market today. It is the first true do-it-yourself data recovery software available.Unlike other recovery utilities that require advanced computer and software understanding, RESCUE operates independently and automatically, executing the recovery actions necessary to retrieve data from crashed hard drives and floppies.



STOCK CODE: NIT003

$119

What the press are saying

"In the past general failure messages left you few options. Norton, Central Point or Mace Utilities weren't likely to help.... Now there is a better solution ... RESCUE can recover data from all but the most thoroughly trashed disk... RESCUE works miracles... *Infoworld*

"RESCUE is a real life saver" *Mobile Office Magazine*

"RESCUE goes further and recovers data even if it is corrupted or if the disk is physically damaged by holes or scratches" *Personal Computer Magazine*

"If you're familiar with the message "error reading drive,Abort, Retry, Fail?" then you know that sinking feeling> RESCUE can now render that message meaningless!" *CFO Magazine*

NEW Features...

- Fully automatic data recovery for hard drives and floppies
- Works on compressed drives
- Works on deleted files
- Fast, easy, safe

All prices INCLUDE sales tax. Prices subject to change, see page 3 for terms & conditions.

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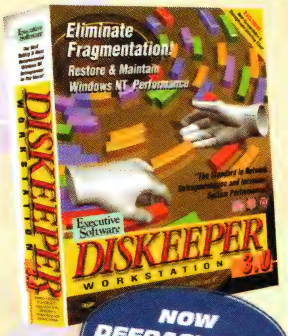
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DISKEEPER 3.0

New technology improves Windows NT 4.0 performance!

NEW PRODUCT



Contrary to popular belief, disk fragmentation is a serious performance issue in Windows NT Server and Workstation. Eliminating disk fragmentation eliminates the primary performance bottleneck that plagues even the best equipped systems providing disk speed improvements of up to 20%.

Diskeeper is guaranteed to eliminate fragmentation as a performance issue and its new directory defragmentation feature being a first making it the most comprehensive product of its kind on the market today.

Fragmentation steadily increases the number of pieces in which your files are stored on the disk and it there for takes longer to read those files. Eventually fragmentation if not addressed will bring a system to its knees. One company found a single file broken into 358,000 separate fragments on their disk!

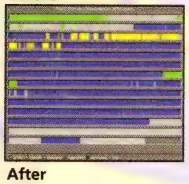
Designed for the corporate network as well as the home user, Diskeeper Server can remotely manage thousands of Windows NT workstations providing remote analysis and scheduling facilities.

Diskeeper will unleash the true power of your Windows NT systems!

NOW DEFRAGMENTS DIRECTORIES!



Before

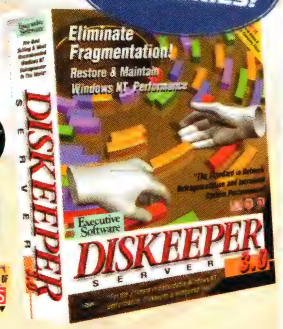


After

"Disk fragmentation can cause performance problems. You should consider running a defragmentation program on a regular basis"
- Microsoft Windows NT Server Resource Guide

"The most commonly used disk defragmentation program for Windows NT is Diskeeper from Executive Software"
- Running Microsoft Windows NT Server 4.0 - Microsoft Press

Designed for Microsoft BackOffice



Features

NEW! Defragments and consolidates directories!

NEW! Group scheduling for single, hundreds or thousands of disks—with just a few mouse clicks!

NEW! Easy Analyse allows administrators to quickly look at any disk on the network for fragmentation. (Server version)

NEW! Full network controls can be run by an administrator from any Windows NT workstation. (Server version)

UNIQUE! The only "Set It And Forget It" Defragmenter

EXCLUSIVE! Remotely schedules, monitors and controls defragmentation across the network. (Server version) Automatically restores and maintains Windows NT system speed and performance. Defragments multiple disks automatically while system is in use. Time tested—completely safe with all types of disks. Easy to use, flexible scheduling options with five priority settings. Supports Intel x86, Digital Alpha and PowerPC platforms. Safe with EDI, SCSI, RAID, volume sets and mirror sets.

PIX001	Single Workstation	$115
PIX002	Five Workstations	$495
PIX003	Ten Workstations	$795
PIX004	Single Server	$495
PIX005	Five Servers	$1,995
PIX006	Ten Servers	$3,495

Call for network pricing

Version 2.0 also available which also supports Windows NT 3.51

Vet AntiVirus

Automatic Virus Protection For All Platforms

Essential Protection

Virus protection has never been as essential as it is today. New viruses are continuing to appear at an ever-increasing rate and new types of viruses - for instance, Word macro viruses - regularly take the PC World by surprise.

The Internet, intranets, networks, Email, shared disks and shared PCs all enable viruses to spread.

Virus Protection for Your System

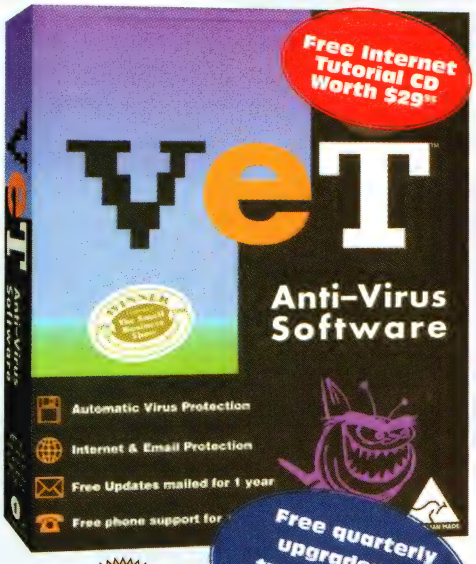
VET Anti-Virus Software provides you with the protection you need for your system, whether it is a stand-alone PC or a complex network of PCIs in an organisation. (Server-based virus protection is also available - please ask for information.)

VET Workstation protection provides automatic virus protection and removal: it gives your PC a quick once-over each time it is switched on or rebooted; it checks all files as you try to access them, preventing you from using an infected file or disk; it provides automatic detection against thousands of viruses and is able to effectively clean files infected by all of the common viruses.

VET is a tried and tested product, used on hundreds of thousands of PCIs in more then 30 countries. It is installed in many universities, government departments, corporate companies, small businesses and home usersí PCs. VET is regularly evaluated by independent organisations and continues to rate in the top ten worldwide.

VET Workstation Protection

To make things easy, the VET Workstation box contains versions for Windows NT Workstation, Windows 95, Windows 3.x and DOS complete with manuals for each operating system. VET is more than a product - it is a service as well. All registered users receive free quarterly upgrades for the duration of their licence and free unlimited phone support for the same period.



Free quarterly upgrades for twelve months. + Free support

FEATURES

- Automatic Virus Protection
- Total Macro Virus Solution
- Network Compatible
- Internet and Email Protection
- Update and Support Services
- An Essential Product

WINNER VET Australian Business Software of the Year

AUSTRALIAN MADE

STOCK CODE: VET001

$95

VET002	VET 2 User licence Pack	$159
VET003	VET 5 User licence Pack	$269

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TuneUp

It's like having a service station for your PC!

Fill up with the latest software updates. Clear out harmful viruses. And Keep your computer running like a finely-tuned engine... with TuneUp.

TuneUp ensures that your hardware and software are up-to-date and virus free. TuneUp's one -year service subscription* provides you with the most comprehensive online care around. And all it takes is a click of you mouse. You can't get a smoother ride than that.

Shift into high gear with the most current updates

VVROOM! TuneUp quickly and securely profiles your system's hardware and software, then immediately generates a list of the latest updates and bug fixes available on the Internet.

No wasting your valuable time calling Customer Support or searching for hours through online lists of program patches and updates. No worries about older versions getting installed over new ones. Just select the updates you want and TuneUp downloads and installs the right ones.

And since TuneUp supports over 3,000 products, you can bet you're covered from Access to Zork. Plus, our pit crew continuously scouts the Internet to stay on top of all the latest updates.

Don't let deadly viruses stall PC

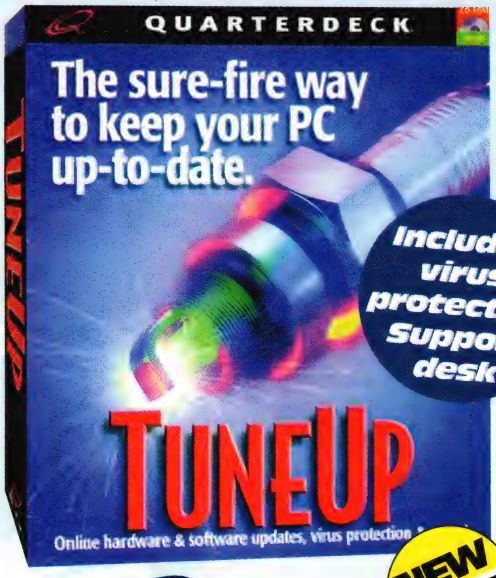
TuneUp AV (Anti-Virus) gives your PC high-octane protection against destructive viruses from floppies, e-mail and the Internet.

It detects and destroys thousands of viruses to keep your PC firing on all cylinders

Open 24 hours-a-day for online service

TuneUp is your direct route to Tuneup.com, Quarterdeck's award-winning, one-stop technical reference Web site. Tuneup.com is available anytime you run into an obstacle.

Get a full TuneUp Not just an Oil Change!	Oil Change V2.0	TuneUp V1.0
Application and hardware driver updates	X	X
Virus protection		X
Tuneup.com reference web site		X



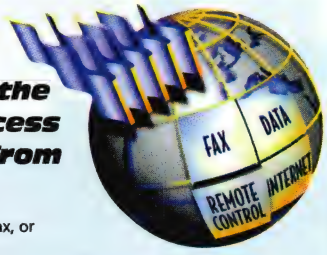
QUARTERDECK

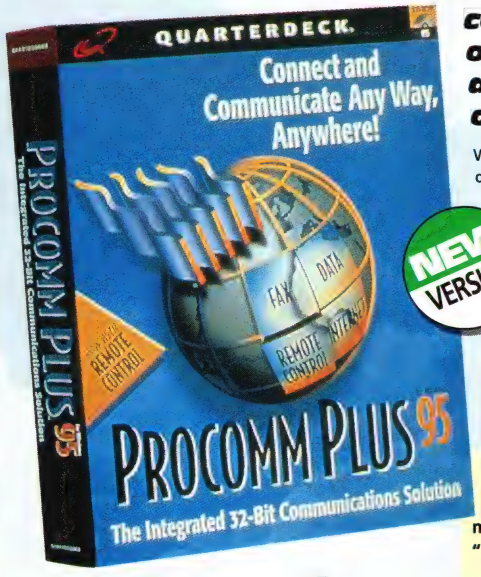
Designed for Microsoft Windows'95

QUA135 TuneUp Version 1.0 ..... **$59.95**

Procomm Plus 32

The world's No.1 best selling communications software is the only complete solution to access all your PC communications from one source.





Whether you're cruising the Internet, sending or receiving a fax, or downloading a file from the office, Procomm Plus 32 has everything you need to communicate via your PC. Fax, Internet and Data functions are seamlessly integrated into one intuitive interface. The quickest, most reliable way to get the most from being connected. Procomm Plus 32 allows you to work at your computer the way you want to, moving from one activity toy the next with ease. Procomm Plus 32 also boasts the new feature Procomm Remote which allows you to connect from anywhere to control your office or home PC files and applications as if you were sitting there. Remote control is also a great way to read and send e-mail, share applications and files between your laptop and desktop.

WHAT THE PRESS ARE SAYING

"...read all the review to appreciate the magnificence of the product"
"...easy to operate, a dream to install"
Micro Computer Mart

Features:

- Fax Manager
- Data Transfer
- Connection Directory
- Web Browser
- Internet Mail
- Internet News Reader
- FTP and Telnet
- ISDN Support
- Aspect Script Language

Designed for Microsoft Windows'95

QUARTERDECK

QUA136 Procomm Plus 32 (CD)..... **$259**

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Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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HOT UTILITIES

CleanSweep Deluxe With Internet Sweep!

NEW PRODUCT

World's #1 choice for save hard drive clean up!

A hard drive can be a very filthy place. Especially if you surf the Internet. Every time you install a program, download a file, upgrade or perform even the most mundane disk operations, you computer dribbles a trail of digital debris - clogging up valuable had disk space. It's now time you called in the world's # 1 choice for safe file removal... CleanSweep Deluxe protests against unwanted files downloaded from the Internet, including viruses.



Powerful Internet protection and cleanup

When surfing the Internet, all kinds of debris get on you hard drive. And most of this digital junk you can't even see! Every time you browse the Web, your hard drive can get cluttered with text, graphics, sounds, video files and "Active X controls". Web "cookies" get invisibly placed on your hard drive when you visit certain sites. CleanSweep Deluxe allows you to safely clean these files, reclaiming valuable hard disk space.

Every day a wide range of software pours in from the Web, (trialware, shareware, betas, and browser plug-ins, etc). CleanSweep Deluxe can remove them safely and completely.

Award-winning cleaning power

Like the original version, CleanSweep Deluxe tidies up your hard drive by cleaning away that digital mess. It tracks down all kinds of disk junk - duplicated files, redundant DLLs, orphan files and infrequently used files - quickly and easily.

Just activate the automatic wizards to determine which files are clogging up your system, then sweep them all away automatically. Or confirm each action yourself. Best of all, CleanSweep Deluxe safely uninstalls both 16 and 32 bit programs.

Gets in hard to reach places

CleanSweep Deluxe effortlessly guides you through the toughest of file-management chores - understanding and editing the hidden registry that contains the secrets of Windows 95 and Windows NT. Then, the exclusive Registry Sweep sweeps away invalid registry entries, while freeing up disk space.

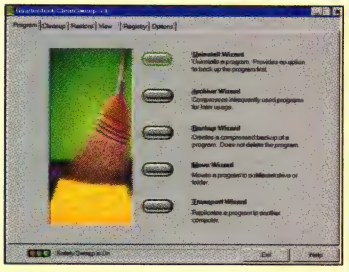
And with the Application Knowledge Base of over 1,000 programs, chances are if it's on your system, CleanSweep Deluxe knows the safest and most through way to get rid of it.

Cleans up Internet debris & Viruses! Remove any new application with 100% safety.

Won't damage your valuables

CleanSweep Deluxe's exclusive Safety Sweep feature offers the best protection against accidental file deletion of any removal utility you can buy.

CleanSweep Deluxe patrols your system all the time, recording the installation of new software. So you can now remove any new application with 100% safety.



Safety sweep "green lights" those files that are safe for you to remove

Which CleanSweep is right your you?

Features	CleanSweep 3.0	CleanSweep Deluxe
Uninstalls and archives applications completely	X	X
Cleans up orphaned, duplicated and unused files	X	X
Offers automatic safety features	X	X
Moves or copies programs to other folders, drives or computers	X	X
Updates itself automatically over the Internet	X	X
Cleans up unwanted files downloaded from the Web		X
Monitors and uninstalls Active X, plug-ins and other Internet programs		X
Includes bonus anti-virus software		X

Features

- Finds and safely removes more files than any other program
- Safety Sweep automatically protects against accidental deletion of important files
- Smart Sweep automatically watches installations for the most effective uninstalls
- Application knowledge base of over 1,000 programs for the safest removals
- Automatically finds wasted space for instant savings
- Intelligently eliminates unused and duplicate files
- Easily moves programs to any location

Update-it

CleanSweep can automatically update itself over the Internet, so you'll always have the most up-to-date application knowledge base

QUARTERDECK

WINDOWS

PC PRO RECOMMENDED

Designed for Microsoft Windows'95

QUA137 CleanSweep Deluxe **$79.95**

CLE011 CleanSweep 3.0 ..... **$55**

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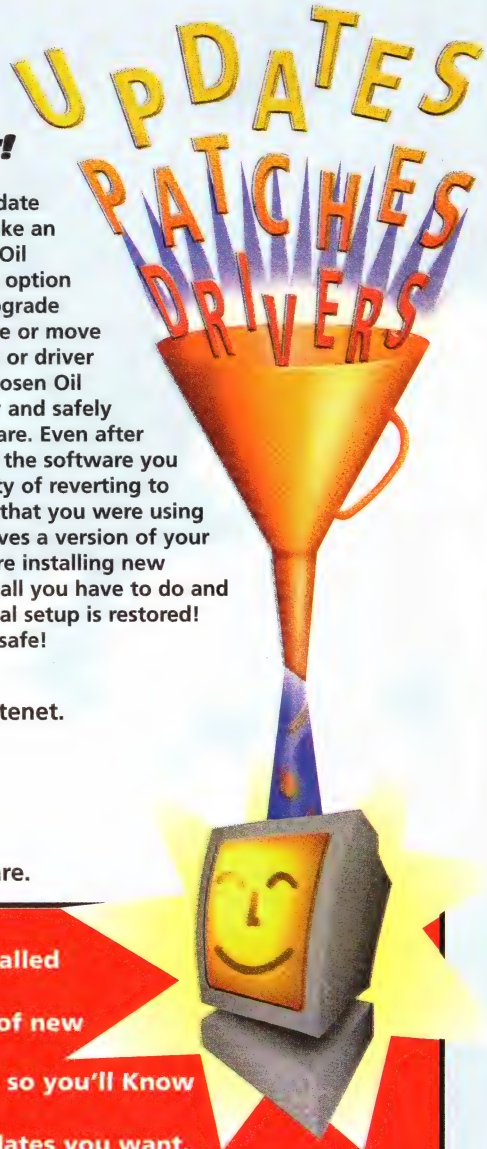
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Oil Change

Update Your Software AUTOMATICALLY Over The Internet!



New software updates and hardware drives are being released on the Internet every day, designed to fix bugs, improve performance and add great new features to your PC. And most of them are FREE!

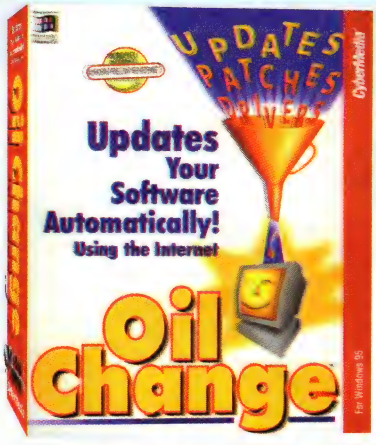
You can keep your PC running smoothly if only you could get these updates, but how do you make sure you have installed the updates properly?

No More hours of looking and searching the huge mass of information that is the internet in the hope of finding upgrades to the software you allready own and have installed on your PC - CyberMedia's Oil Change will first identify the software that you have installed on your PC, then log onto the internet in order to check with the CyberMedia Internet master list of new updates and drivers that are currently available an the Internet and then give you a helpful description of each update so you'll be able to make an informed choice. Next Oil change allows you the option of then choosing to upgrade that particular software or move onto the next upgrade or driver that is available. If choosen Oil Change autokmatically and safely installs the new software. Even after you have downloaded the software you still have the opertunity of reverting to the previous software that you were using because Oil Change saves a version of your present software before installing new software - One click is all you have to do and your computer's original setup is restored! It's that easy and that safe!

- Locates new updates, patches and drivers for your PC on the intenet.
- Downloads and installs the updates you select.
- Get new plug ins for your browser.
- Tunes up your software for peak performance.
- Keeps your PC up-to-date.
- Gets you the latest and greatest enhancements for your software.

How does it work?

1. Just click on start and Oil Change identifies all the installed software applications and hardware drives on your PC
2. Oil Change then checks with CyberMedia's master list of new updates and drivers that are currently available on the Internet and gives you helpful description of each update so you'll Know what benefit each update will provide
3. A helpful description allows you to select only the updates you want. Oil Change downloads and safely installs your new software automatically



Here"s what Top PC mechanics are saying:

"Could be the most significant program to hit your hard disk in many a moon"
– Netguide

"The most advanced on-line tune up"
– CNET Television

"Consider it your own personal upgrade assistant and system maintainer"
– PC Magazine

"Oil Change ensures your computer is running the newest software... it doesn't't get any easier than that."
– Time Magazine

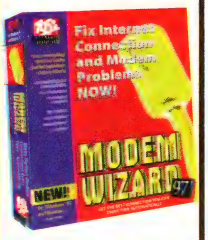
"(with this) digital oil change.... you have not just software but living software."
– Time Magazine

RMG210 Oil Change **$65**

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Kiss Modem Wizard

KIS018



Only $49

Fix Internet Connection And Modem Problems NOW!

For a limited time only.

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

First Aid 98

NEW VERSION

First Aid fixes more Windows problems more automatically than any other software.

First Aid 98's advanced database of solutions recognises problems like software conflicts, buggy components, and configuration issues and offers users an easy, one-click solution. It continuously protects against hard disk failure, crashes, software lockups and more. It can even reactivate your PC when your software stops responding! In addition, First Aid will examine your entire PC Internet setup (modem, browser connection) and reassemble portions that are broken. When users experience a problem that First Aid does not know about yet, they can send an ActiveHelp Support E-mail. Included in the E-mail is the PC's system information, everything First Aid did to fix the problem, and a description of the problem in the user's own words.

What New for 98

Refined User Interface! First Aid's new interface is easier to use than before. Users can give their PC a complete "Check-Up" or zero-in on a single PC component.
Smarter, More Automatic Fixes! First Aid 98 fixes tens of thousands of Windows problems with a single mouse click. First Aid's expanded database of solutions allows it to stay on the job until the problem is solved.
Emergency Recovery System! PC won't start up correctly? First Aid's new, emergency recovery system now rebuilds Windows. Using its extensive Knowledge Base, First aid will check every critical component of Windows to make sure all files are working properly. When a problem is encountered, First Aid fixes it by either readjusting your system or reinstalling missing or damaged files.
Finds and Replaces Damaged Files! Plagued by damaged files? First Aid checks to see if actual program files (VXDs, DLLs, 386s etc.) are damaged and replaces the damaged files with their originals (which First Aid reinstalls from the CD)
Fixes All Aspects of Your Web Connection! Having trouble with your Web connections? First Aid examines your entire PC Internet setup from modem, to browser, to Internet Service Provider (including plug-ins) and reassembles any portion that is broken. It updates or reinstalls files as needed, and makes sure you are connected for optimum performance.
Conflict Resolution! Ever wonder why your PC is misbehaving? First Aid will scan your entire PC to see if conflicts caused by buggy software, out-of-sync technical standards or incorrect registry setting are the culprit. First Aid will correct the problem by updating the troublesome component or driver.



Here's What First Aid Will Do For You

- Warn you in advance of hard drive failures
- Correct tens of thousands of known problems and help keep your PC conflict free
- Take the risk and hassle out of adding new programs and multimedia cards
- Search the Internet to find the latest solutions
- Act as your personal, 24 hour technical support expert

Fixes Window Problems Automatically!

What the press are saying:

Designed for Microsoft Windows'95

It's Easy to Use!
"You do not have to be a techie to run this program" - *PC Computing*

It's Complete
"The aisles are loaded with utility programs..First Aid's advantage is that it's a friendly package that will prevent and mitigate most common disasters without demanding much from users in return" - *The Washington Post*

It's Essential
"First Aid from CyberMedia can be a big help... an assortment of tools that makes running Windows easier" - *Business Week*

First Aid 98
STOCK CODE: RMG211
$65

New UnInstaller 4.5 for Windows

Safer, faster, better!



WIN.95 ONLY
STOCK CODE: UNI008
$65

UnInstaller 4.5 is the only completely safe way to delete applications and files from your Windows PC. It is the world's top-selling Windows clean-up utility and new Version 4.5 is faster, safer and crammed full with great new features that will make UnInstaller your essential personal PC housekeeper.

No matter how large your hard disk is, it's never large enough. Applications, Internet downloads, graphics and multi-media games fill up a hard disk in no time. When you need more space, clearing off the old, unneeded stuff can be risky. With many applications using hidden and shared files, it's difficult and dangerous to delete files by hand. UnInstaller is the safest way to remove files and applications - *even the things that were on your hard drive before your installed UnInstaller!* Its exclusive SmartLinks technology scans your entire system and identifies all the relationships between programs and files so that UnInstaller can then decide which files are safe to remove and which ones you need. It will never remove an essential Windows system file! With Automatic Backup you have an extra safety net in case you delete something you wanted to keep. With over 1 million users, nothing is safer than UnInstaller.

LOOK! - Hot New Features...

- **Quick Cleanup** - Tell the Quick Cleanup wizard how much space you need. It searches your system and automatically deletes files that can be safely removed - like temp files and Internet cache files.
- **Application Cleanup** - Delete an unneeded application and its related files, Archive an application to another place on your computer with all its related files intact, or Transport an application to a different computer without the need for reinstallation.
- **File Cleanup** - Find all those unnecessary files that accumulate on your system every day. Regular cleanup makes the most of your disk space.
- **Built-in Viewer Pane** - See the contents of files before you delete them without launching any other applications.
- **Graphical Reports** - Display or printed detailed reports to see how your system has changed.
- **Automatic Installation Monitor** - Automatically starts the the Installation Monitor when an application is installed.

WHAT THE PRESS ARE SAYING

"This software will pay for itself over and over again."– *PC Direct*
"The most well endowed of these utilities by some distance."– *Windows User*
"Head and shoulders above most other similar products on the market."– *PC Direct*
"Of the three programmes tested, only UnInstaller 3 did not offer to remove any critical Windows files." – *PC Magazine*

Editor's Choice Home Office Computing PICK · PC Magazine Technical Innovation Award 1995 · PC Computing MVP 94 Finalist · Designed for Microsoft Windows'95 · PC Magazine Editors' Choice

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- **Nationwide Delivery** – We can deliver to any location in Australia, quickly. Whatever it takes, we deliver.
- **Massive Stocks** – Our aim is to fulfil 95% of orders from stock. Our financial stability enables us to hold more than 10,000 items in stock at any one time.
- **All Welcome!** – We always service the individual buyer, small business and large corporation to the same high standard.
- **No.1 Service** – As an international company we have won more awards for products and services than any software mail-order company.

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Everything you need to fix up, clean up, speed up and tune up your system.

NEW PRODUCT

NUTS & BOLTS is a package or brilliant, virtually automatic utilities that PREVENT crashes, OPTIMISE your hard drive, ELIMINATE conflicts, REPAIR damage, SECURE files, SHRED sensitive stuff, ALERT you to problems, RESCUE lost files, DIAGNOSES your system, INCREASE speed, FIX glitches and CHECK program compatibility.

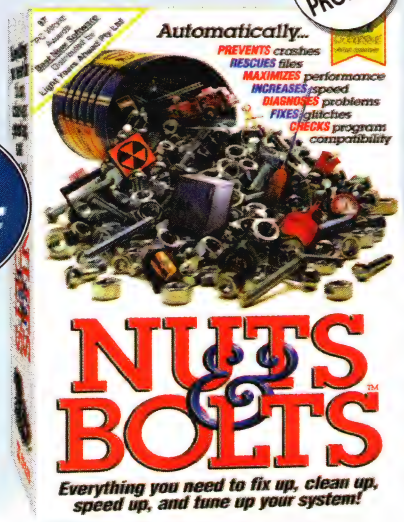
Best New Product of '97

FIX UP
Avoid crash-causing application conflicts. Prevents a single crashed application from taking down your entire system. Recover lost files, Fix damaged files, repair shortcuts, directories, and registry and system settings. Boot up after the worst disasters with your own Nuts & Bolts rescue disk.

TUNE UP
Test all your hardware with the push of a button. Optimise and customise your windows effortlessly. Tune your hard drive and Registry for conflict free installation of applications. And keep an eye on your memory and critical system resources to prevent problems before they occur.

CLEAN UP
Dump all those old, unused, duplicate or orphaned files that are cluttering your memory. Delete leftover shortcuts and program groups. Enjoy a lean and mean registry by eliminating useless tips and colour schemes.

SPEED UP
Defragment your hard drive and organise it so that the programs you use most are the front of your hard drive for quick access. Launch your favourite programs with one-click anytime! Optimise and defragment your registry for a faster boot-up.



Nuts and Bolts Repairs and Recovers

Disk Minder - Lost and damaged hard disks are history. NUTS & BOLTS Disk Minder helps you recover from the worst disaster by repairing and recovering damaged hard disks. Plus it finds and fixes many problems - damaged boot sectors and partition tables - that scan Disk can't.

Rescue Disk - You'll never get totalled again with NUTS & BOLTS Rescue Disk you can build a separate single floppy which allows you to access and recover your system even after it's crashed.

Image Restoring - Accidentally format?

Nuts & Bolts Cleans and Optimises

Disk Tune- NUTS & BOLTS Disk Tune reorganises your entire drive for peak performance. How? By defragmenting your files and pulling the ones you use most at the beginning of the hard disk (so you can access them faster). It does all this about 1000% (that's right, 10 time) faster than Windows Defrag.

Registry Wizard - Instant therapy for application conflicts. Every time you add or delete hardware of software you wreak havoc with your registry. NUTS & BOLTS Registry Wizard means automated housekeeping - cleaning, repairing, optimising and fixing the registry for maximum performance.

Cleanup - NUTS & BOLTS Cleanup collects the rubbish left behind by deleted programs and gets rid of it for your. Cleanup can even zip the files you just in case you need them.

Nets & Bolts Secures and Manages

Ez Setup - NUTS & BOLTS EZ setup lets you configure Windows (rename your compute, change icons, Windows logo etc.) to suite your needs and/or taste without having to delve into the Registry.

Stronghold - Keep those prying eyes out of your files. NUTS & BOLTS Stronghold ensures that your secrets remain secret. Encrypted files turn plain English into a sophisticated cipher, which is totally secure. Stronghold also allows you to create self de-crypting files, which you can e-mail to others who don't have Stronghold.

Shredder - NUTS & BOLTS Shredder doesn't just shred, it obliterates. Unlike other shredders, it leaves no trace of deleted files that can resurface later to embarrass you.

Zip Manager - Access your applications with a single click from your choice of a pull down menu.

Protects

Includes full copy of Cheyenne anti-Virus software, including real-time scanning and removal, scheduled scans and updates via the Internet.

Bomb Shelter - A safe haven for your system NUTS & BOLTS Bomb Shelter saves your data by letting you save crashed or hung programs. But unlike others, Bomb Shelter doesn't stop there. It protects Windows from misbehaving programs, so that a crashing program won't crash your entire system.

WinGuage - Know what's happening before disaster strikes. NUTS & BOLTS WinGuage uses a series of user-friendly gauges to display the status of your system in real time, and warns you of potential problems before they occur.

Trash Guard pro - Yikes! You just deleted that really important file NUTS & BOLTS Trash Guard prevents such accidents and allows you to recover deleted files even from DOS and 16-bit Windows Programs.

Discover Pro - Puts hardware and software configuration at your fingertips. Discover Pro is the only program which tells you how much RAM you open programs are using.

Nuts & Bolts out classes the competition!

	NUTS & BOLTS	Symantec Norton Utilities	First Aid 97
Easy to use Central Interface	YES	NO	
Repairs & Recovers Damaged Files & Hard Drives	YES	YES	NO
Automated Clean & Repair Windows Registry	YES	MINIMAL	
Rebuild & Optimise Registry for Maximum Performance	YES	NO	NO
Optimise hard Drive (N&B Disk Tune is up to 5x Faster)	YES	YES	
Cleanup Hard Drive	YES	YES	
Provides Detailed System Info	YES	YES	
Protects Against Accidental File Delete	YES	YES	
Emergency Rescue & Recovery	YES	YES	NO
Hardware Diagnostics	YES	DOS ONLY	MINIMAL
Live System Monitor	YES	YES	NO
Crash Recovery	YES	NO	
Crash protection	YES	NO	NO
Easy System Configuration	YES	YES	NO
Zip/UnZip Files	YES	NO	NO
Drag & Drop Zipping	YES	NO	NO
Zip Integrated with Files & Hard Drive Cleanup	YES	NO	NO
Encrypt / Decrypt Files	YES	NO	NO
High security Encryption	YES	NO	NO
Security Integrated with File Compression	YES	NO	NO
Secure Erase Feature	YES	NO	NO
Secure Erase works with Compressed Drives	YES	NO	NO
Self De-crypting Files for easy E-mailing	YES	NO	NO

Designed for Microsoft Windows'95

PC WORLD 97 AWARDS

STOCK CODE: HEL001

$129

What the Press are Saying

"A complete utility program that knocks Norton Utilities 95 off its feet" - Windows Sources, ZDNet.

DISTRIBUTED BY: LIGHT YEARS AHEAD

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CD-Recordable Optical Disks from Verbatim



VER043

Only $5.99

The Ideal Solution For Desktop Online Archiving!

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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VISA MasterCard

TURN YOUR COLOUR PRINTER INTO A COLOUR FAX.

VEHICLE	SIZE	TIME
ChromaFax	5.0 Mb	1min 30secs*
E-mail	5.0 Mb	25 minutes**
Courier Service	1 package	2-3 hours***
FedEx	1 package	24 hours****

* 9600 bps transmission speed (typically compresses to than 100kb)
** 28.8 bps transfer rate
*** Quoted courier delivery rate
**** Standard FedEx rate

NOW YOU CAN SEND AND RECEIVE COLOUR FAXES FROM YOUR PC WITH THE WORLD'S FIRST COLOUR FAX SOFTWARE.

Now you can fax in colour! With ChromaFax software PC users can send and receive faxes in full colour. You can fax scanned photos, ads, brochures, in fact any colour document on your PC.

ChromaFax receiver software is included with ChromaFax and is available as a free download from www.compressent.com. So any-one with a Windows '95 PC and a modem can receive and view colour faxes, turning your colour printer into a colour fax machine.

ChromaFax supports the recognised international fax standards, so if the fax destination does not have ChromaFax receiver software, the fax is automatically converted to black & white.

ChromaFax image compression makes it quicker and more reliable than e-mail, it is also faster and cheaper than using courier or overnight delivery services.

Colour faxing can be even quicker than black & white

In testing, using a Pentium 133 with 32 MB of RAM, ChromaFax faxed a 28-page document incorporating a number of colour images in 19 minutes, 46 seconds, while WinFax (faxed the same document in black & white in 20 minutes, 52 seconds.

ChromaFax is also a great black & white fax program so it's the only fax program you'll ever need. You can choose from ready made cover-pages or create your own, import address books, drag and drop multiple files into a single fax, annotate your faxes with sticky notes and highlights, and much more.

ChromaFax from Hot Key. Now there is finally a fax program as up to date as your computer.



NEW PRODUCT

Marketing and Distribution by:
HOT KEY
SPECIALIST I.T. DISTRIBUTION ASIA PACIFIC

NIT010 Chromafax $115

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Choose a Free CD with every order!*

*Full product as shown - OEM packaging. Packaging shown for display purposes only.

1. MASTERCLIPS 1000 — A collection of professional colour clipart
2. STARFISH INTERNET UTILITIES — Manage your diary, contacts, meetings and communications via the Internet
3. BODYWORKS V3 — Learn all about the human body with multimedia guide
4. TURBOCAD V1 WINDOWS — The most significant release of any CAD software this decade
5. EZ LANGUAGE VERSION 1 — EZ Language V1 is the fun & easy vocab-ulary pronunciation tutor for 7 different languages
6. LEONARDO THE INVENTOR — A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

"Call our friendly, knowledgeable sales staff"

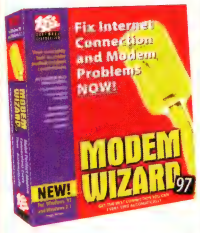


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EVERYTHING FOR YOUR PC - DELIVERED NATIONWIDE!

Kiss Modem Wizard

KIS018



Only $49

Fix Internet Connection And Modem Problems NOW!

For a limited time only.

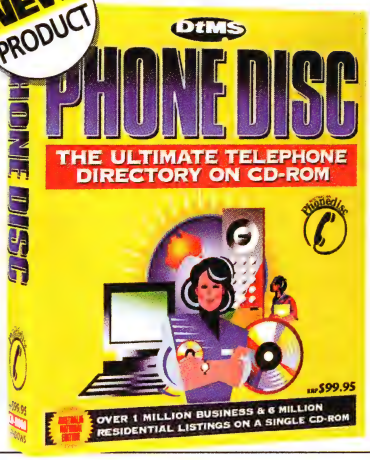
Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

Australian PhoneDisc

DtMS

NEW PRODUCT



The ultimate telephone directory on CD-ROM

Australian software that is smart, fast and easy to use containing over 1 million business and 6 million residential listings Australia wide on a single CD-ROM.
Searching is easy:
Just type in any of the following: Company Name, Surname, Initials, Suburb, State, Postcode, Line of Business, Area Code or Telephone Number and click the search icon. Phonedisc will then display a summary of the matching entries from its database of 7.2 million records.
View and of the summary records in full detail. Print the record to your printer, copy it to the Windows Clipboard to paste into your other applications, or direct-dial the record using the Auto Dial feature and your modem.

Features:

- Intuitive lab style interface
- Search by Company name, Initials Surname, Suburb, state, Postcode, Area Code, line of business and Telephone Number
- Drop down selection lists are available for the Suburb, State and Line of business search fields.
- Full Boolean searching capabilities
- Print entries
- Copy entries to the Window Clipboard
- Dial entries (modem or auto-dialler required)
- Network and Multi-user versions available
- Ideal for looking up friends, relatives and locating businesses quickly
- Update twice yearly

STOCK CODE: DTM001

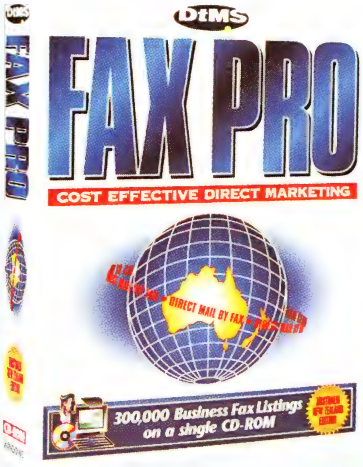
$89

FaxPro

DtMS

NEW PRODUCT

Cost Effective Direct Marketing



A database of over 300,000 Australian and New Zealand Business Fax Listings on a single CD-ROM

Searching

Fax Pro allows you to perform a variety of searches and gives you the ability to use sophisticated searching techniques such as wild card searches. Once you have performed your searches you can then display, print or export the results.

Exporting

You can easily export your search results to a disk file in comma delimited or fixed file format. Records exported to a disk file can then be imported into another application.

De-Duplication

Fax Pro's de-duplication facility flags or eliminates duplicate records by facsimile number.

Printing

You can print an entire set or the tagged records of a set in a single line report format. The single line report format prints the Company Name Address, Suburb, Postcode, Telephone Number and Facsimile Number details for each record.

Other Features:

• Ability to tag record • Ability to combine sets
• Ability to sort sets • Fax Pro is updated twice a year.
Fax Pro allows you to search and compile data by:
• Facsimile Number • Company Name
• Suburb • Industry Code • IDC & ANZSIC • Business Type
• Telephone Area Code • State (Australia)
• Locality (New Zealand)

STOCK CODE: DTM002

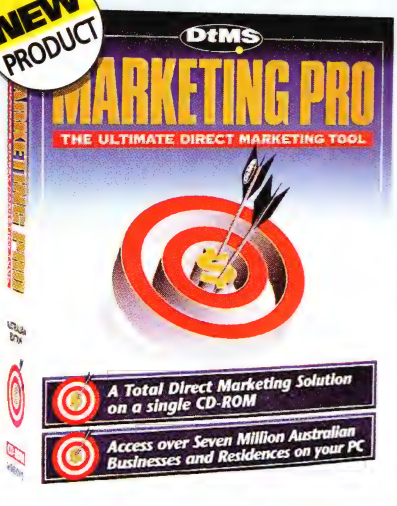
$275

Marketing Pro

The Ultimate direct Marketing Tools

DtMS

NEW PRODUCT



A Total Direct marketing Solution on a single CD-ROM
Over Seven Million Australian Business and Residences at your fingertips
Marketing Pro allows you to search over 7 million national residential, business, into lists, prospect cards, mailing labels and telemarketing reports; Compile data by: Business Type, City, Address, Phone number, Ad size ,Postcode, Industry Codes, State, Region, Employee Size, Mobile Phone Number, Directory,

Powerful Software

Marketing Pro utilises the leading edge Australian developed Pegasus Data Retrieval Software.
Peagasus is a powerful data retrieval engine with sophisticated compression techniques, perfect for large data bases like Marketing Pro.

User Friendly

Marketing Pro utilises interactive wizards to guide you through common tasks.

DTM003	Marketing Pro Melbourne	$495
DTM004	Marketing Pro Sydney	$495
DTM005	Marketing Pro Brisbane	$495
DTM006	Marketing Pro Vic/Tas	$595
DTM007	Marketing Pro NSW/ACT	$595
DTM008	Marketing Pro QLD/NT	$595
DTM009	Marketing Pro SA/WA/N	$595
DTM010	Marketing Pro National	$1095

Features:

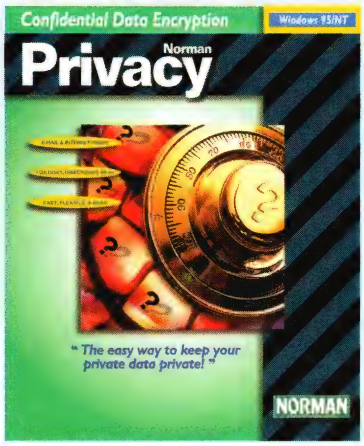
- Query by Example searching..
- Full search Refinement: - Simple to use, and very powerful.
- Contemporary easy to use, User Interface.
- Easy label and Report Printing.
- Sophisticated Report Printing: Create your own reports.
- Fast Deduplication Facility: -Eliminates duplicate records.
- Auto-Dial Facility: - Use Marketing Pro for telemarketing.

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For the cost of a local call **Orderline 1300 360 799**

Sales Lines Open 9am til 6pm Monday to Friday and 10am til 3pm Saturday.

VISA MasterCard bankcard



Norman Privacy

NEW PRODUCT

Without Privacy, storing confidential data on your PC or notebook is like leaving your key in your front door. Anyone can get in and probably will. Privacy encrypts your data to make it unreadable without a password.

Install Privacy and you can protect a single word, everything in every folder, or anything between! Privacy is flexible enough to encrypt single or multiple words, files, folders or non-boot hard disks.

Easy to Use

To get some privacy on your PC, all you have to do is select the word, paragraph, file, folder or non-boot disk you want to encrypt and assign a password. That's it.

Once encrypted, only you or anyone you choose to give the password to can read the encrypted data.

What happens to an encrypted file!

Encrypted data is scrambled using a complex series of mathematical formulas, and it stays completely unreadable without the correct password.

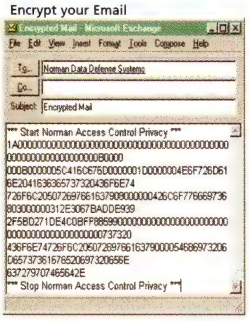
Any Application

Use Privacy to keep anything you can store on your PC private.

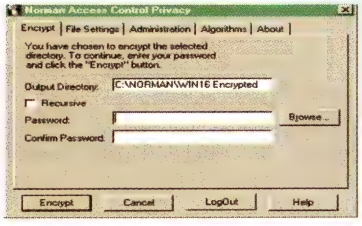
Easy to Install

With Privacy you can conveniently store encrypted data on hard, floppy and removable disk media, including PC cards.

Encrypt your Email



Your password is the key to privacy



NORMAN
Norman Data Defense Systems

NDD001 **Norman Privacy** **$75**

Do you have any of these on your PC?

- Internet and E-mail Access?
- Financials and Accounting Results?
- Important Customer Databases?
- Valuable Formulae or Operating Systems?
- Confidential Agreements?
- Confidential Presentations?
- Staff Salary Packages?
- Staff Performance Assessments?
- Bank Account Passwords or PINs?
- New Product Plans?
- Competitive Analysis Reports?
- Confidential Corresspondence?
- Ideas in Development Stage?
- Personal Secrets?
- Embarassing Facts or Information?

If so, you need Privacy.

Norman Virus Control

An updated database of all known viruses is included with this package Offers Prevention, Not just Detection

Install Norman Virus Control (NVC) and you'll never have to worry about viruses lurking in your programs or stored documents again. NVC is so advanced, you can be sure your PC will be free of all kinds of viruses, including Macro viruses or those found on the Internet.

Detects & Removes all types of viruses

With the enormous growth of new Macro viruses together with Polymorphic scanners, a new approach to virus control was required. Enter Norman Virus Control, a revolutionary new way of attacking and elimination viruses. NVC integrates a number of different components to control all types of viruses like nothing else can. Here's how...

Patented Smart Behaviour Blocker

NVC utilises the very latest high-speed artificial intelligence to continuously examine the behaviour of any executed program. Should NBC detect any viruses, the program is disabled before it has a change to become resident and contaminated the rest of your system. With this amazing breakthrough, NVC virtually eliminates the need for time consuming and costly old style scans.

Heuristic Scanning & Generic Removal

Most virus control packages can only recognise viruses when the virus executes. But now with newly developed heuristic scanner technology, NVC can accurately recognise and remove a dormant virus without prior knowledge of it.

Cat's Claw Macro Virus Protection

Cat's Claw constantly monitors all documents that are likely to contain a Macro virus, including e-mail attachments, and automatically detects and removes any virus as the document is opened. With the current growth in macro viruses, Cat's Claw is and essential component in virus protection.

Fast, Accurate Scanner & Database

A database of all known viruses is included free with this package which means that NVC's high-speed scanner can quickly and accurately identify all known viruses to let you know exactly what you're dealing with.

Though virtually unnecessary with NVC, for extra reassurance you can also schedule automatic virus scans and customise search criteria.

Extremely Fast, Transparent Operations

Unlike other packages NVC virtually has no effect on operation times such as copying files or loading programs. NVC is so fast and so intelligent, most users won't notice it until it advises that it has detected and disabled a virus.

Rescue Disk

Included is the Rescue Disk which Scan and cleans an infected hard disk should all else fail.

Boot area Protector

NVC automatically scans the boot sector of a floppy disk when it is accessed. This prevents boot sector viruses from infecting your system.

Cross-Platform Downloads

Versions of NVC are available for single or networked users of DOS/Windows, Windows 95, Windows NT, OS/2 and Novell NetWare.

Scan Internet Downloads

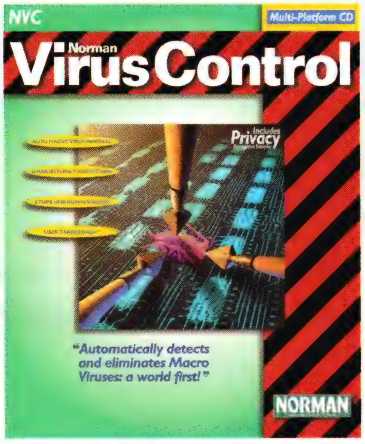
Your browser can be configured to automatically use NVC to scan an Internet download even if it is in compressed format.

ALL KNOWN VIRUSES

After testing the world's leading virus control packages against all known viruses, The Virus Bulletin of January 1997 reported: "One product stands alone... Norman Virus Control... the only one to score 100%.

NEW PRODUCT





NORMAN
Norman Data Defense Systems

NDD002 **Norman Virus Control** **$89**

8 Reasons why 1,000's of buyers choose Software Warehouse every month!

- We will beat any advertised price on any identical product. Subject to terms & conditions P2. **Price Pledge**
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- We can deliver to any location in Australia, quickly. Whatever it takes, we deliver. **Nationwide Delivery**
- Our aim is to fulfil 95% of orders from stock. Our financial stability enables us to hold more than 10,000 items in stock at any one time. **Massive Stocks**
- We always service the individual buyer, small business and large corporation to the same high standard. **All Welcome!**
- As an international company we have won more awards for products and services than any software mail-order company. **No.1 Service**

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Backup Exec

For Windows NT Single Server/Enterprise Edition

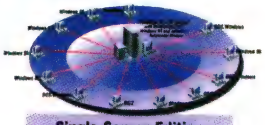
NEW PRODUCT

Powerful new Seagate Backup Exec for Windows NT sets the standard for enterprise storage management

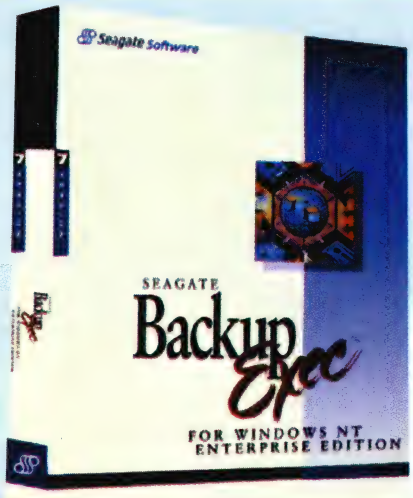
New scalable storage solution architecture provides Intelligent disaster Recovery Options and Advanced Devices and Media management

Seagate Backup Exec for Windows NT is the system of choice for high performance, reliable Windows NT data protection - and the most comprehensive solution for 100%BackOfece compatibility.

As the first backup solution designed for Windows NT, Backup Exec incorporates the Windows NT API's for superior 32-bit performance and ease-of-use. Seagate Backup Exec Intelligent disaster Recovery option provides the only "point-in-time recovery capability for quick, dependable recovery of services. Now in its fifth-generation, Seagate Backup Exec puts you in complete control with 24-hour network-wide scheduling, administration, monitoring, device and media management. And, Seagate Backup Exec offers pre-defined report writing capabilities with integrated Crystal Reports - for details when you need them.



Should you ever need to restore data from backup media created with Microsoft's Windows NT or Exchange Server backup utility, Backup Exec is 100% Microsoft Tape Format (MTF) compatible for effortless recovery. As the developer of the Microsoft Exchange Server and Windows NT backup utility, Backup Exec is the ideal solution for all your data protection needs.



Microsoft SOLUTION PROVIDER

Designed for Microsoft BackOffice

Enterprise Server V7
STOCK CODE: SEA096

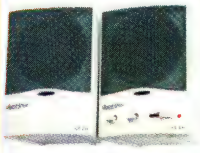
$1699

- Intelligent Disaster Recovery - Minimize recovery time with the only point-in-time rapid-recovery system for fast, dependable Windows NT server and Workstation recovery.
- 100% Microsoft compatibility - Proven reliability and 100% data interchange with the Windows NT Backup utility.
- Performance Optimisation. Maximise performance, minimise network traffic. Backup time using exclusive Agent Accelerator technology distributed processing/sources compression.
- Integrated Crystal Reports - Provides details at a glance with User-Defend and Pre-Defend reports for network-wide administration, monitoring and management.
- Advanced device and media management - Maximises backup performance with drive pooling, dynamic load balancing, drive cascading, fault-tolerant processing and media overwrite protection.

SEA110	Backup Exec Single Server	$775
SEA091	Backup Exec 95 V2	$129
SEA086	Backup Exec NT Enterprise Ed V7	$349

Stereo Speaker System

ACT111



Only $39.95

QS-835
Sound Force 200

Built-in Stereo Amplifier - Compatible with All Soundcards!

For a limited time only.

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

Netgear

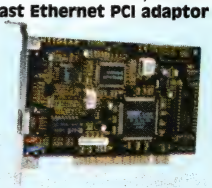


-a bay Networks company, offers easy to use, easy to install, affordable networking solutions for the small/medium business supported by a toll free 7 day X 24 hour support number....just in case!

FA310 PCI 10/100 Ethernet Adaptor

Bay Networks

The FA310 is an auto sensing 100Base-TX Fast Ethernet PCI adaptor designed to support the next generation multimedia power-application.



Features
- 10/100 Mbps to operate with 10Mbps hubs or switches
- Single auto-sensing RJ-45 port
- Lifetime warrantee and free technical support

BAY109 FA310 TX PCI 10/100 Ethernet Adaptor $99

Netgear Network Starter Kit

NEW PRODUCT

Ideal for someone with a couple of computers looking to share files and peripherals. Easy to install and easy to use!



Features
- 4 Port 10Mbps Hub
- 2x 10/100 PCI network cards
- 2 lengths cat 5 cable
- Network starter guide

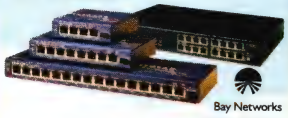
Bay Networks

BAY143 Network starter pack..... $275

10/100 Mbps Ethernet switches

Increase the performance of your existing network by simply incorporating a switch into your current network

Features
- Auto negation - Full/half Duplex
- speed sensing on 10/100 ports
- Plug and play - no configuration required
- Slimline or rackmountable



Bay Networks

BAY140	2x 10/100 port - slimline	$519
BAY141	4x 10/100 port - slimline	$919
BAY142	8x 10/100 port - rackmountable	$2449
BAY134	8x 10Mbps port	$799
BAY132	2x 10/100 8x 10 Mbps port (RM)	$1459
BAY133	2x 10/100, 16x 10Mbps port (RM)	$229

10 Mbps Ethernet Hubs

Bay Networks

A range of 4,8 and 16 port unmanaged hubs. Ideal for users who require an easy to install, easy to use solution.

Features
- Visa LEDs clearly indicate port status
- Push button RJ-45 uplink port for expansion
- slimline or rack mountable
- Limited Lifetime Warranty



BAY131	4 port slimline 10BaseT	$99
BAY130	8 port slimline 10BaseT	$129
BAY105	4 port slimline 10BaseT, AUI, BNC	$159
BAY104	16 port slimline 10BaseT	$299
BAY121	16 port rackmount 10BaseT, AUI, BNC	$399
100Mbps	Fast Ethernet Hubs available from	$359

All prices INCLUDE sales tax. Prices subject to change, see page 3 for terms & conditions.

For the cost of a local call **Orderline 1300 360 799**

Sales Lines Open 9am til 6pm Monday to Friday and 10am til 3pm Saturday.

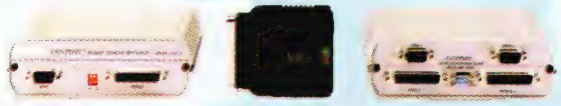
VISA MasterCard

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

Digi FastPort

With a host of easy to use management utilities the Digi FastPort print servers are perfect whether running a single protocol or sharing a printer between Unix, Novell, Microsoft and Apple clients on the same network. On Microsoft networks the FastPort appears in the network neighbourhood as a printer. On Novell the FastPort automatically locates and binds to the Netware server. Unix hosts simply see the FastPort as an Ipr device. DLC (JetDirect) and AppleTalk are also supplied. The baby FastPort 3410/3420 print servers plug directly into the printer, then you simply plug your netwoek cable into the back.

DIG040	1 Parallel PPort, 1 UTP Port	$395
DIG041	1 Parallel PPort, 1 BNC Port 3	$395
DIG042	2 Parallel/2 Serial, 1 UTP	$616
DIG043	2 Parallel/2 Serial, 1 UTP+BN C	$659



Artisoft

ART050	IShare 2.5 32 User	$344
ART051	Lantastic 2 User S/K	$364
ART052	1 Node Add On	$223
ART053	I User /CD	$175
ART054	I User /Diskettes	$191
ART055	10 User /CD	$710
ART056	Unlimited Users	$1415

Artisoft i.Share v2.0



i.Share 2.0 is the way to save money..

..While giving everyone on your network access to the Internet. i.Share provides simultaneous Internet access for every Windows 95, 3.11 or NT 3.51 client on your network from a single, secure access point on a Windows 95 server, now you only need:

One Internet account, one phone line connection, one IP address and one TCP/IP stack (server only).

No need to have a separate ISP and phone connection for each user, cuts administration expenses, and reduces memory usage on each PC requiring Internet access. Additional features include Eudora™ Light e-mail client software; Tierra Highlights™ Internet monitoring and alert software; NetCentric™ FaxStorm™ software for cheaper faxing over the Internet; Forte FreeAgent news reader; and Kali™ Internet gaming software.

3.5

ART048 Artisoft i. Share v2.5 for MS/LAN/Netware $259

LANtastic V7

The first Internet-ready network for small businesses



LANtastic version 7.0, upgrades the award-winning LANtastic network operating system with more speed, memory handling, expanded communications and new Internet/WAN connectivity features. LANtastic combines these newly enhanced capabilities with ease-of-use and industry-low prices that have made LANtastic the leader in small-business networking.

ART018	LANtastic V7 2 User Starter Kit	$399
ART021	LANtastic V7 Single User Addon Kit	$215
ART022	LANtastic V7 Single User CD	$115
ART023	LANtastic V7 Single User 3.5	$130
ART024	LANtastic V7 10 User CD	$465
ART026	LANtastic V7 Unlimited User CD	$915

KTI Networks



100BASE-TX HUBS AND ADAPTERS

KTI003 NIC, 10/100 PCMCIA UTP (PF-C16) $249

KTI004 NIC, 10/100 PCI Bus Master UTP Only (KF221TX/2) $85

10/100Base-TX Fast Ethernet PCI LAN Adapter (KF-221TX)

Key Features:• Supports auto-sensing for 10Base-T and 100Base-TX operations • Supports 32-bit bus master operation, low CPU utilization • Complies with PCI specifications 2.0 or later • PCI bus clock • Supports full-duplex operation for up to 200Mbps data transfer rate • Complies with PCI plug-and-play with no hardware setting (jumperless)

KTI004 KF221TX/2 ..... $85

8 port Workgroup Fast Ethernet hub(KF-8M)

Key Features:• Complies with IEEE 802.3u standard for Class II 100Basetx repeaters• Provides 8 100Base-TX ports• Provides an extra cross-over jack for hub-to-hub connection• Supports Category 5 UTP cable up to 100 meters• Total network span: 205 meters• Auto-partition and recovery function for each port • Wall mount kit included

KTI005 8 port Workgroup Fast Ethernet hub (KF-8M) $599

KTI006 100Base-TX 8 Port Stackable Fast Ethernet Hub (KF1008TX V2) $799

ETHERNET HUBS AND REPEATERS

Workgroup 10Base-T 9-Port Ethernet Hub (KH - 9M)

Key Fetures:• 9-port workgroup Ethernet hub • 8 UTP ports with 8 "shielded" RJ-45 Jacks• Allow hub-to-hub connection via 8C crossover port • 1 BNC port with embeded selectable thin cable terminator • With the built-in BNC port, the hub can protect your existing investment on thin coaxial Ethernet network • Light weight and small footprint

KTI009 Workgroup 10Base-T 9-Port Ethernet Hub (KH - 9M) $125

KIT010 10-Port 10 Base-T Ethernet Hub (KH-10M) $195

KIT011 10Base-T 18-Port Ethernet Hub (KH18M)

Key Features:• 18-port 10Base-T Ethernet Hub• Provides: 16 shielded UTP ports, 1 BNC port, 1 AUI port • Provides auto-detection and auto-correction for wiring polarity reversal problem on each UTP port • Auto-partition and recovery function on each port

KIT011 10Base-T 18-Port Ethernet Hub (KH-18M) $999

KTI012 10Base-T 24-Port Ethernet (KH-24M) $499

100Base-TX 12 Port Fast Ethernet Hub (KF1012/TX)

Key Features:• Complies with IEEE 802.3u standard for Class II 100Base-TX repeaters• Provides 11 100Base-TX ports• Provides 1 expansion slot for a choice of either a 100Base-TX or a 100Base-FX port module. The slot can be configured as either a hub port or an uplink switch port.• The uplink switch port can be connected to another 100Base-T network segment. This advanced design allows interconnection of stacks up to 100 meters (up to 400 meters using fiber) when the optional uplink module is installed. Each hub provided hub-to-hub connections for cascading up to 4 units per stack. Support Category 5 UTP cable up to 100 meters. Desktop and 19" rack mountable (with rack mount Kit)

KTI007 100Base-TX 12 Port Fast Ethernet Hub (KF1012/TX) $1049

100Base-TX 16 Port Stackable Fast Ethernet Hub (KF1016TX V2)

Key Features:• Comply with IEEE 802.3u standard for Class II 100Base-TX repeaters • Provides 16 100Base-TX ports• Each hub provides hub-to-hub connections for cascading up to 4 units per stack• Each hub provides an extra crossover jack for hub-to-hub connection • Support Category 5 UTP cable up to 100 meters • Total network span: 205 meters • Auto-partition and recovery function for each port • Rack mount kit included

KTI008 100Base-TX 16-Port Stackable Fast Ethernet hubs (KF1016TX V2) $1469

ETHERNET ADAPTERS

KIT013 PnP ISA 16 Bit, UTP Only, Jumperless (ET-16PST) $39

KTI014 PNP ISA 16 Bit, Combo BNC + UTP H/W & S/W Config (ET-16PD2) $45

KTI015 PCI Combo 32-bit BUS Master (Ether-PCI) $75

PCI Combo Ethernet Adapters (ET - 32P2)

Key Features:• Complies with IEEE 802.3 standard • ET32/P2 provides RJ45 and BNC connectivitie.• ET32/PC provides RJ45, BNC, and AUI (via an extended AUI bracket) connectivities • Complies with PCI specifications 2.0 or later • Compatible with PCI bus with the highest clock rate• Supports true PCI 32-bit operation • Complies with PCI plug-and-play with no hardware setting (jumperless) • Supports remote boot ROM socket Optional RPL remote boot ROM (16KB) for NetWare 3.11, 3.12, 4.1, Windows NT 3.5, 3.51, and IBM LAN Server • FCC Class B

KTI016 Plug and Play PCI Combo Ethernet Adapters (ET - 32P2) $49

PCMCIA Ethernet Adapter (PE520C)

Key Features:• Support dual connectivity for thin coaxial Ethernet and 10Base-T Ethernet • Works with PCMCIA Type II and III slots• High speed data transfer capability to access corporate data from a notebook computer• Plug-and-play design without switch or jumper settings • Works with various PCMCIA card/socket service and supports direct enabler to work with notebook computer without card /socket service • I/O address: 200, 220, 240, 260, 280,2C0, 300, 340, 360 • Interrupt: 2,3,4,5,10,11,12,15• Power Use: 2.2W std. 2.9W max.

KTI017 PCMCIA Ethernet Adapter (PE520C) $139

FAST ETHERNET SWITCHES

KTI001 KS-2870 Workgroup Switch, 8x10/100 UTP $2529

KTI002 KS-2028 Workgroup Switch 8x10M UTP + 1x10/100M UTP $1329

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*Full product as shown - OEM packaging. Packaging shown for display purposes only.

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2. **Starfish Internet Utilities** — Manage your diary, contacts, meetings and communications via the Internet.
3. **Bodyworks V3** — Learn all about the human body with multimedia guide.
4. **TurboCAD V1 Windows** — The most significant release of any CAD software this decade
5. **EZ Language Version 1** — EZ Language V1 is the fun & easy vocab-ulary pronunciation tutor for 7 different languages
6. **Leonardo the Inventor** — A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

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Why do you need power protection? An uninterrupted power supply keeps your equipment safe from power events including surge, swells, brownouts and blackouts – and keeps you safe from downtime that power problems invariably produce.

Back-UPS Pro
- Performance protection for advanced workstations
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- Multistage surge protection
- Plug and play with Win'95
- User Replaceable, Hot swappable
- Line-interactive Design
- Communication Interface Port

Smart UPS
- Performance Power management for advanced business networks
- SmartBooster and SmartTrim
- Nine Wave output
- Available in Rackmount and Extended Run modules
- SNMP Support Available
- Intelligent Battery Management

All have 2-year warranty



Product Code	Description	Price
Back-UPS Pro Plug and Play	**See below for Powerchute plus operating system**	
APC001	Back-UPS Pro 280 Pnp	$349
APC002	Back-UPS Pro 420 Pnp	$449
APC003	Back-UPS Pro 650 Pnp	$549
Smart-UPS and Powerchute Plus		
APC004	Smart-UPS 450 with Powerchute plus	$749
APC005	Smart-UPS 700 with Powerchute plus	$719
APC006	Smart-UPS 1000 with Powerchute plus	$1129
APC007	Smart-UPS 1400 with Powerchute plus	$1699
APC008	Smart-UPS 2200 with Powerchute plus	$2649
APC009	Smart-UPS 3000 with Powerchute plus	$3249
Surge Protection		
APC010	ProtectNet for telephone and Modem lines	$35

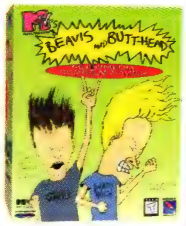
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Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

SONY. SRS-PC21

A light compact entry level model with a modern design.

Featuring Intelligent Base Boost, the SRS-PC21 automatically enhances bass sounds with no risk of distortion. High-quality listening at an affordable price.

- Intelligent Bass Boost (IBB) for automatic control of rich bass sound
- Active or passive use



SONY30 SRS-PC21 ..... $49

SONY. SRS-PC41

This speaker offers a stylish design with powerful IBB bass sound and a frequency response of 70 Hz to 30 kHz. An additional output jack offers extra bass for a sub-woofer that can be controlled from the SRS-PC41.

- Intelligent Bass Boost (IBB) for full resonant bass sound
- Dual input for audio mixing
- Audio output jack for sub-woofer



SONY31 SRS-PC41 ..... $105

The SONY. SRS-PC300D

For music connoisseurs who expect the best, the SRS-PC300D provides a big sound matched by rich, resonant bass. This is a dynamic three piece system offering a total output power of 25W.

The positioning is entirely variable and allows you to sense the sound coming from different directions – try mounting the smaller speakers on the monitor at ear level using the supplied adaptor and placing the sub-woofer beneath the desk. Game enthusiasts will enjoy multi-dimensional sound effects such as bombs exploding all around them!



Home Stereo Quality

The SRS-PC300D has two audio inputs and a function selector for mixing the two so you can match sound from games, music CDs software applications. It also features a variable bass boost control for enhancing its rich bass quality, making music listening as much a pleasure on your home stereo unit.

Features
- Dynamic three piece system for multi-directional sound effects.
- Exceptional output power plus variable bass boost control for rich, resonant bass.
- Two audio inputs, mixing function and headphone jack for easy output switching.

SONY32 SRS-PC300D $269

Labtec Speakers

Labtec Speakers

Game Series LCS-3210 Amplified Computer Speakers

For the ultimate Multimedia Experience

Features:
- Greater bass output levels.
- Ideal matching of sub woofer to satellites - regardless of brand.
- Master volume buffered outputs >60 ohms impedance
- 13.3 cm Max-X high woofer& 680 gram magnet structure.
- 14 Watts RMS total into 4 ohms
- Optimised port base extended response to 35Hz
- One year limited warranty



America's #1 Selling Computer Speakers

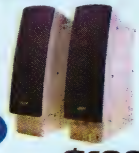
IBM012 LCS 3210 Amplified Computer Speakers $169

Game Series LCS-2612 Amplified Computer Speakers

The ideal speaker system for enhanced CD-ROMs, games and music

With Spatializer technology the LCS 2612 Amplified Computer Speakers create vivid, expansive, and interactive three-dimensional surround-sound listening experience ideal for enhanced CD-ROMs, games and music.

Features
- 20 watts (4w + 4w + 12w) into 4 ohms load with <10% THD both channels driven
- Frequency response : 40 Hz-20kHz
- Magnetically shielded to protect monitor, hard drive and disk storage
- 13.3 cm Max-X high excursion subwoofer
- 7.6 cm Max-X high excursion driver
- One touch mute button for enhanced control
- One year limited warranty



Each Set includes Free Headset worth $29

LAB011 LCS 2612 Amplified Computer Speakers $199

Labtec LCS-2408 Universal Subwoofer

Sound seems to come from all around you

The first universally compatible multimedia subwoofer that is compatible with virtually all amplified satellites speakers on the market today - works with or without a subwoofer output jack.

Features:
- Suppression circuit provides bass output levels without distortion.
- Ideal matching of sub woofer to satellites - regardless of brand.
- Will drive all amplified satellite speakers with 60 ohms or higher impedance
- 13.3 cm Max-X high excursion woofer with 6 layer voice coil and massive 680 gram magnet structure.
- 14 Watts RMS total into 4 ohms
- One year limited warranty



Magnetically Shielded

LAB010 Universal Subwoofer $109

All prices INCLUDE sales tax. Prices subject to change, see page 3 for terms & conditions.

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INTERNET Mate

Simply plug into any soundcard, and talk to anyone in the world!

NEW PRODUCT



Say "Good Buy" to costly international and interstate calls with the worlds first Internet Telephone with Full & Half Duplex Software.

The InternetMate now provides you with the ability to make an international phone call anywhere in the world for the cost of a local call (plus your ISP connection fees). Ideal for business or keeping in-touch with family and friends.

The Internet Mate is packed with features enabling you to connect up to 5 people at once. And with GatherTalk software your InternetMate is much more than a phone.

Video Plug-in - enables you to connect a video camera for face-to-face video conferencing.

White Talk plug-in - enables you to draw in real-time, using pens, lines and circles. You can also transmit Bitmaps and OLE objects.

TextTalk plug-in - enables you to communicate in real-time using a word pad, similar to IRC (Internet Relay Chat).

Say "Good Buy" to costly STD and ISD calls

Use your InternetMate in 3 ways:

1. Connect By E-mail Address

Connect using colleagues and friends e-mail addresses. Simply enter their e-mail address in the edit box and click the connect button.

2. Gather Talk Server

Use InternetMate to chat with like-minded people. With the InternetMate connect to the Gather Talk server and select a topic area for discussion and have a real time chat to whoever is connected at the time you call.

3. Connect By Direct IP

Connect directly by IP. Simply enter the host name or IP address from the field and then click the Connect button.

Delivery of 2nd Handset anywhere in the world.

With every Internet Mate you receive 2 Handsets. The first handset comes in the box and the second one is sent to anywhere in the worldat no charge.

Features
- No IRC Server Connection needed
- No need to join a chat room
- Direct Call via E-mail address
- Easy to Install
- No technical knowledge required

Easy Connection

The InternetMate provides all the necessary equipment and software to get up connect. Though you will need a sound card (preferably full duplex), modem and Internet connection. The InternetMate handsets and software are compatible with all sound cards and includes mic/speaker function and is bundled with telephony software.

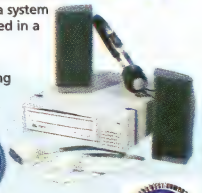
UTC006 InternetMate **$139**

Take Your Notebook Out Of The Prehistoric Era.

SOUND Mate

The SoundMate is specifically designed to bring old Notebooks into the multimedia age. This completely portable multimedia system includes a 12x CD-ROM and a 16 bit sound card all encased in a small lightweight multimedia unit.

Also included is a FREE software package consisting of Asymmetric Web Publisher and Trispective 3D Eye Drawing programs, allowing you to create WEB pages up to any magnitude.



Features:
- 16 Bit Stereo sound
- Latest 12xCD0ROM Drive
- Simply plugs into parallel port
- High quality stereo speakers
- Talking software

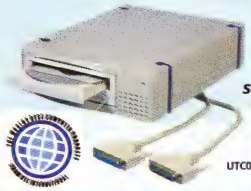
FREE Software titles valued at $548

UTC002 Sound Mate **$599**

Idiot Proof Multi-Media – Just plug in and play.

EASY Mate

- External 12x Speed High Performance CD- ROM
- Front Loading motorised tray, no caddy required
- High speed reading transfer rate (sustained) 1800KB/second using a high speed parallel port
- High speed access random average:110ms
- Supports High Sierra, ISO 9660, CD-ROM XA, Photo CD & CD-Audio formats
- MSCDEX compatible includes MSCDEX



Includes: 12x CD-ROM and all Cables & Drivers. With bonus Asymmetrical Software - Web Publisher & Tri-Spectives 2D Eye

Bonus Asymmetrical Software

UTC001 Easy Mate **$399**

The Power To Create Your Own CDs

CDR Mate

ATAPI (E-IDE) CD Recordable
6 x Read - 2 x Write

CDRMate CD Writer offers the complete solutions for:

Designing: Creative Multimedia Presentations, Video, Animation, 3D-Effects, 3D Web pages

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For Home: Make Audio CD's, Save Important Data, Create Stunning Resumes, and Add 3D Web Effects to Home Pages & View Photo CD's

Archiving: Archiving Maximum of 740 MB of information storage

Provides fast random access to archive data in numerous market areas from graphic to multimedia

Provide low cost per Mb removable storage (Compact)

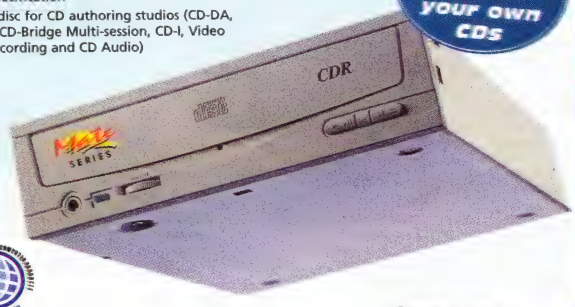
Provides good data integrity for long term storage

Flexible: Recording Disc can be read on every available CD-ROM player

Conforms to write-once format within the standards of the Orange Book Specification

Master disc for CD authoring studios (CD-DA, CD-XA, CD-Bridge Multi-session, CD-I, Video Data Recording and CD Audio)

The power to create your own CDs



UTC005 CDR Mate 6 x Read - 2 x Write **$649**

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AI Gotcha 2

Portable Video Capture

Take snapshots of your favourite images from Camcorder, VCR, or other Video source in 16.7 million colours into your PC. You can use photos for multimedia presentations, web page publishing, disk-based catalogues personal photo albums, image database, digital greeting cards, newsletters, e-mails and much more. This is a simple plug-in (parallel port) and play device providing a high quality portable capture solution. By connecting to a video source, whether composite or Y/C, an extremely high quality image can be captured (1600 x 1200 dpi) into any of the supported graphic file formats.



Features

- AiGotcha! Real-time image capture software
- Internet audio postcard
- Parallel port extension cable
- AIGotcha hardware (NTSC/PAL)
- Video Craft Multi-Media suite of special effects
- Pass through printer connections

* for a limited time only

ASS011 **AI Gotcha** **$369**

WaveWatcher TV PCI Card

Video capture (to 30 f.a.s.) and TV tuner PCI card with remote control

The WaveWatcher provides resolution up 768x560 at 30 fps or single frame / display mode up to 1280x1024 in 24 bit true colour This simple to use Plug-n-play installation makes getting started a snap. The WaveWatcher PCI bus, eliminating the need for feature connector as well as the VGA looping cable.



A MultiMedia Studio on Your Computer
Capture full motion video direct from your TV, camcorder of VCR with CD-quality sound. Includes Media Studio Pro 2.5 professional editing and special effects software & allows the creation of full motion multi-media clips with up to 101 simultaneous video and audio tracks.

Free Headset & 3D Game*

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Featuring 125 Channel TV Turner with Background viewing. Simply plug your T.V. antenna input directly into your computer and watch your favourite shows and movie on UHF or VHF while running other applications.

Video Conference Enabled
Works with your video camera, modem and video conferencing software for improved image resolution and faster frame rates. Includes Unied's MediaStudio 2.5 Video Editing Software.

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ASS006 **WaveWatcher (PCI Card only)** **$359**

Pocket Scan Converter (PSC 1106)

Your business presentations on the big screen.

Using the Pocket Scan Converter in conjunction with your notebook computer (or PC), any presentation can be displayed on a TV or recorded onto video tape, making the Pocket Scan Converter ideal for business, education and training applications. This compact device simply plug into your notebook/PC and the other end into a TV/Video to put your presentations onto the big screen. And when the work is done,play computer games on your TV. Designed with flicker reduction circuitry and S-VSH support, the Pocket Scan Converter produces extremely vivid, high quality images with up to 16.8 million colours.



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ASS001 **PSC 1106** **$209**

Cardex Dragon 1000

Super Fast 3D Turbo Card

Transforms your PC into the ultimate gaming station with revolutionary 3D interactive real time technology, giving you arcade game station quality 3D performance that fully supports Windows 95 Direct 3D. Comes with 4Mb EDORAM for ultra fast action.



Features

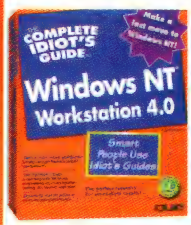
- **Fully supporys all PC97 3D Standard Features**
- **Revolutionary 3D Interactive Real-Time Technology**
- **The easiest way to turn your PC into the ultimate gaming station**
- **Arcade game qualaity for an at-home price!**
- **Cyber speed 3D game**

* for a limited time only

ASS005 **Cardex Dragon 1000** **$269**

Idiot's guide to Windows NT Worksation 4.0!

IDI002



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A Quick and easy step by step overview to help new and upgrading windows users !

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

VideoDirector Studio 200

Turn your raw video footage into perfectly edited productions.

NEW PRODUCT

Editing your video use to be a juggling act - trying to fast-forward to just the scenes you want to copy.

Choose the best, edit the rest!
Just play your video through the VideoDirector Studio mixer and it automatically detects and marks the beginning and end of each new scene. Then grabs the first frame of every scene and remembers where it is on the tape. To edit, just drag and drop your favourite scenes in the order you want. It couldn't be easier!

Tell the story with titles and transitions.
Once you have selected your scenes and put them in sequence, you can add true, professional-quality transitions - choose form over 100 Wipes, Fades, and Dissolves! Or add coloured, transparent, or drop-shadow titles.

Now here this.. A professional sound track
Next, record some narration for your video, add music, and even sound effects. VideoDirector Studio 200's audio features give you control of the soundtrack of your personal production.

As easy to use as your camcorder!
When you have finished with your production, just click on "Make Tape." VideoDirector remembers the location of every scene on your source tape and then automatically finds and record each shot and effect your have selected. In minutes, you will have all the highlights to your video on one exciting tape.

Easy to install - Start editing in minutes!
Setting up VideoDirector Studio 200 to work with your PC is easy! Just attach it to your computer's parallel port, connect your camcorder and VCR using standard cables, and you are ready to go. Best of all, you don't have to open up you computer and VideoDirector does not fill your hard drive with huge video capture files.

Grab high-resolution video frames in a snap!
Video Director Studio 200 captures still frames from your videos, too. Just pick any image your camcorder can see and grab an instant digital "Snapshot". You can add it to any PC document, or even edit it back into your next video production.



Package Includes

- VideoDirector 200 Mixer: (Connects to your PC's parallel port. Includes S-video and composite video inputs/outputs and printer pass through.)
- Smart Cable (Controls your camcorder and VCR)
- VideoDirector 3.0 software
- Title Editor 3.0 software
- Audio Editor software
- CD-ROM of Clip Media

NewMedia Magazine Thumbs Up

VIDEO camera AWARDS

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Windows Experts' Choice

Videomaker Best Product of the Year

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COMPRO Super Pack

Open the Compro Super Pack and find your choice of a fast Compro 12X or 24X CD-ROM drive plus Sound Card and a pair of Compro Stereo Speakers



For even greater value to the 1997 Best '7" pack, 7 new fantastic CD titles have also been included.



3D/EYE TriSpectives 1.0
TriSpectives is a complete 3D-drawing program for Windows 95. With over 1,000 professionally designed 3D Intellishape models, you can use TriSpective to create amazing 3D animation, illustrations and drawings.

Asymetrix Digital Video Producer 4.0
Asymetrix Digital Video Producer 4.0 is the easiest tool available to assemble digital movies and edit video and audio clips on your desktop PC

Asymetrix 3D F/X 2.0
3D F/X is graphics and animation software that allows Windows 3.1/95/NT users to create high impact professional-quality rendered images and animation.

Compel 2.0
Interactive presentations made easy. Work with text, graphics, animation, sound and video to create stunning interactive presentations.

Web 3D
Web 3D is the easy way to put incredible 3D images and design elements into your home pages. Compelling graphics and up-to-date information are keys to getting new and repeat visits to your home page.

Web Publisher
Choose from 20 different completed sets of professionally created theme templates, which include banners, buttons, backgrounds and other Java powered graphic elements.

Encyclopedia Of Their Sacrifice
Their Sacrifice CD ROM captures the sounds, sights, thoughts and lives of Australians both at home and at war during World War II. The CD contains over 400 photos and images and 30 minutes of original film, and 90 minutes of recordings.

CMP002 **Compro Super Pack (24x CD ROM Drive)** **$315**



The 1997 Best '7' Pack includes: Grolier 1997, Mega Race 2, Master clips 10,000, Chess Master 4,000 Turbo, Mavis Beacon Teaches Typing, US Atlas, and World Atlas.

ASYMETRIX

COMPRO Digital Internet Camera -Premium Pack

Make your creative ideas a reality with the COMPRO Digital Camera!

The COMPRO Premium Pack comes with the following software;
D-Viewer, a user friendly Windows compatible software application that allows full control of d-Cams functions for optimal image capturing.
AVI Driver - A Microsoft MCI compliant software driver that allows you to interface the camera directly to your favourite Video Conferencing software or any other AVI application.
TWAIN Driver - An industry standard still image capturing device driver that allows you to interface the camera directly into your favourite TWAIN compatible image enhancement, painting or Photo ID software.



The Compro Super Pack consists of:

- Compro Digital Camera
- Fiber & Wireless Mediafone Video Conferencing Software - An easy-to-use yet feature rich Video Conferencing software that allows you to conference over the Internet and Normal Telephone line.
- Ulead Video Capture / Editor - A useful motion picture capturing tool that allows you to record video and audio clips and save to AVI files.
- Ulead Image Editor / Viewer - A powerful still image enhancement and photo touch-up tool that gives you full control over image characteristics, a special effects and painting functions to create your ideal picture.
- Ulead Photo Album - A user friendly image database that allows graphical browsing and retrieval of images. Supports OLE feature that enables you to drag and drop
- Ulead Imorph Editor software - Allows you to generate fantastic Hollywood morphing effects found in the movies.
- Asymetrix Video Producer Version 4.0 Software -
- Compro Microphone on Stand

Designed for Microsoft Windows'95

CMP003 **Compro Internet Digital Camera** **$299**

COMPRO CD Recorder Kit

High Speed Operation - The 4x writing speed reduces the time taken to complete write operations compared with conventional CD recorders. The 8X reading speed is capable of fetching up to 1.2MB per second
Fixed and Variable Packet Writing - Compro CDR 7502 supports fixed and variable packet writing which significantly reduces the overhead of incremental writing. Also supports Direct CD
Running Optimum Power Control (OPC) - Compro CDR 7502 supports OPC which dynamically regulates the laser power to suit media from different manufacturers which means most CDs can be used with Compro CDR 7502
Easy Installation and Operation - Compro CDR 7502 CD-Recorder kit includes a plug and play SCSI card and comprehensive user manuals to ensure smooth installation and operation. The CD recording software offers intuitive Graphical User Interface with detailed on-line help.
Highest Reliability - Compro CDR 7502 Drives are developed and manufactured by Matsushita in Japan to ensure the highest reliability. Each drive has been carefully calibrated to conform to major CD standards.



The Compro CD Recorder Kit consists of;

- Panasonic CW-7502 Drive (4 write X 8 read)
- Adaptec SCSi controller card
- Gear CD mastering software and Direct CD software
- Asymetrix WEB3D and WEB Publishing software
- Asymetrix Compel 2.0 and 3D F/X 2.0 software
- 2 Blank CDs plus a 16 CD carry case

CMP004 **Compro CD Recorder Kit** **$945**

Choose a Free CD with every order!*

*Full product as shown - OEM packaging. Packaging shown for display purposes only.

1 MASTERCLIPS 1000

A collection of professional colour clipart

2 STARFISH INTERNET UTILITIES

Manage your diary, contacts, meetings and communications via the Internet.

3 BODYWORKS V3

Learn all about the human body with multi-media guide.

4 TURBOCAD V1 WINDOWS

The most significant release of any CAD software this decade

5 EZ LANGUAGE VERSION 1

EZ Language V1 is the fun & easy vocabulary pronunciation tutor for 7 different languages

6 LEONARDO THE INVENTOR

A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

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GVA008



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2X CD Recording Station CD-R 2006

FAST

FAST - Awesome value and ease of use!



Boasting 2X record (300 Kbytes/sec) and 6X read (900 Kbytes/Sec) speed, this affordable CD-Recorder is bound to please both seasoned multimedia pros and first-time home users alike... especially those on a budget. The CD-R 2006 includes all the latest software to create CDs the way they were meant to... fast and trouble-free.

Bundled Software includes: • CD Consultant • CDR Disc Jockey
Supplied with PC and Mac software http:// www.smartandfriendly.com.

VER070 Smart and Friendly CD-R 2006 (Internal)..... **$669**

VER071 Smart and Friendly CD-R 2006 (External)..... **$829**

Quad-speed/CD-Recording Station/CD-R 4006

FASTER

FASTER - Breaking the speed barrier!



If creating CDs fast is your thing, then this speed demon will record a 650MB disc in just 17 minutes! Plus, thanks to its blazing 6X reading speed, you'll enjoy the latest software titles with flicker-free video, seamless animation and crystal-clear sound. Better yet, you'll access data from source discs in a heartbeat. Available in both internal and external models.

Bundled Software includes: • CD Consultant • CDR Disc Jockey
Supplied with PC and Mac software http:// www.smartandfriendly.com.

VER072 Smart and Friendly CD-R 4006 (Internal)..... **$1109**

VER073 Smart and Friendly CD-R 4006 (External)..... **$1289**

VER043 CD DataLife 640 MB CD..... **$4.50**

DVD ROM Upgrade Kit

Verbatim ActiveMEDIA

NEW PRODUCT

The 2nd generation of DVD-ROM drive has arrived!

The GD-2000 offers exceptional reliability and first class performance with both CD-ROM and DVD and DVD-ROM disc.

First-class DVD-ROM and CD-ROM performance
The GD-2000 features leading-edge technology that pushes performance to new hights: 2x speed (2.76 Mbytes/s) for DVD-ROM, and 20x max. speed (3.34 Mbytes/s, full CAV) for CD-ROM.

CD-RW (CD-E) compatibility
Capable of reading new CD-RW format, in addition to the other CD-ROM, CD-R and DVD-ROM formats already available or announced, the GD-2000 offers maximum compatibility.

ATAPI (Enhanced IDE)
Enhanced IDE, the most popular interface for both hard disks and CD-ROM drives, offers proven performance and reliability. With ATAPI PIO (Programmed I/O transfer) Mode-4 compatibility, the GD-2000 boasts data throughput that is more than sufficient for today's most demanding multimedia titles.



High Reliability
Hitachi is renowned for high reliability and several improvements will be even more reliable.

Features: Included in the kit:
- One Hitachi GD-2000 DVD-ROM Drive,
- One Quadrant International Cinemaster Card,
- Four DVD-ROM titles:
- Muppet Treasure Island - Activision
- Spycraft - The Great Game - Activision
- Daedalus Encounter - Mechadeus
- The Genius of Edison - The Learning Company

2nd Generation

Ver074 DVD ROM Upgrade Kit **$899**

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

PC-DVD Encore DXR2

Creative Labs, the creator of Sound Blaster and the market leader in multimedia upgrade kits once again leads the world in bringing you the future generation of digital home-entertainment to your PC and living room.

With Creative PC-DVD Encore Dxr2, you get technologies and experiences totally unprecedented on your PC today, such as vibrant digital imagery of MPEG-2 video that's uniquely enhanced for high-definition and smoothness, the sparkling clarity and room-shaking thunder of Dolby Digital (AC-3) audio with cinema-like surround-sound, and massive high-speed storage. It's as if the future is already here.

What is DXR2? PC-DVD Encore Dxr2 is the DVD upgrade kit for your PC, which includes a second-generation PC-DVD ROM drive combined with the PCI-based Dxr2 card that includes state-of-the-art picture enhancement technology and MPEG-2/Dolby Digital decoding. With PC-DVD Encore, you get 7 futuristic entertainment solutions for an incredibly low price.



leads the World in multi-media upgrade kits

Features

- DVD Player for your TV - Plays on big TV and Video Screen
- DVD Player for your PC - Enjoy an avalanche of Hollywood movies, games and entertainment like never before
- Blazing 20x Speed CD-ROM Drive - Data access and transfer at a super fast 100ms
- 2nd-Generation, 2x Speed DVD-ROM Drive - Double the speed of the competition
- Stores up to 17 Gigabytes of data. No more CD-R incompatibility plaguing all first-generation DVD-ROM drives.
- VideoCD (H/W MPEG-1 Player) - Enjoy the thousands of entertainment titles available
- Dxr2, State-of-the-Art Picture Enhancement
  In a class with expensive "line doublers," our DynamicXtended Resolution (Dxr2) video enhancer performs as well, if not better, than other professional line doubling systems costing thousands of dollars.
- Dolby Digital AC-3- Audio To wrap up the awesome features
  PC-DVD Encore comes with Dolby Digital (AC-3) audio output. You can enjoy the hi-fidelity acoustic clarity of Dolby Digital audio, down-mixed to 2 channels on your PC sound system or you can have a full-blown, room-shaking, theatre-like experience of a 6-speaker (5.1 channel) surround system with an optional low-cost consumer Dolby Digital receiver.

Stock Code:CRE040

$749

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STORAGE

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Traxdata CD Writable Recorders



Writable CD Recorders

TraxData CDR 2600EL CD Recorder Kit 2x6x (Internal)
2x Speed Record, 6x Speed Play

Join the world of CD Recording with the TraxData range of easy-to-install, feature rich CD Recorder solutions. TraxData has tested and selected a complete rang of components to provide the ultimate in CD recording solutions, all in a single box.

TraxData CD Recorders allow you to record all your favourite elements (Music, Data, Photos or Video directly to low cost CD-R discs.

Recording to CD could not be easier! Now, with only a few clicks of a mouse, you can turn your PC into a Digital Recording Studio for any type of content that you have!



TraxData CDR2600 includes:
- CD Recording Software for Windows 3.1x,
- Windows 95 & NT
- UDF Recording Software for Windows 3.1, '95
- Label Design Templates
- 2 CD-R Discs
- Power & SCSI Cables
- Fixing Screws
- CD Marker Pen
- Manual

TRX146 **Traxwriter CDR2600EL Int** **$629**

TraxData CDR 4600EL CD Recorder Kit (Internal)
4x Speed Record, 6x Speed Play

Kit Includes:
•TraxData CDR4600
•CD Recording Software for Windows 3.1x, Windows '95 & NT
•UDF Recording Software for Windows 3.1, '95
•Label Design Templates
•2 CD-R Discs •Power & SCSI Cables
•Fixing Screws •CD Marker Pen •Manual



TRX147 **Traxwriter CDR4600EL Int** **$929**

MUSIC DATA PHOTO VIDEO

TraxData CD Recorder Kit CDE2604P (External Parallel Port Connection)
2x Speed Record, 6x Speed Play

Kit Includes:
•External CD Recorder
•CD Recording Software for Windows 3.1x, Windows '95 & NT •UDF Recording Software for Windows 3.1, '95 •Label Design Templates
•2 CD-R Discs •Power & Parallel Cables
•Fixing Screws •CD Marker Pen •Manual



TRX148 **Traxwriter CDE2604ELP Ext** **$799**

TraxData Accessories Kits

Allows users to record audio tracks directly from CD ROM, Hard Drive or Database using Drag and Drop on to CDR. Also enables the removal of crackles and hiss from studio tracks, the creation of layouts for booklet, inlay card and CD label, multi-session audio recording and on the fly audio recording.



Music Kit (Traxaudio Pro software,1x CDR, Audio Cabling and Jack Plug)
TRX142 **Music Kit** **$89**

External Case and SCSI Cable - Upgrade to an external unit
TRX104 **External Case and SCSI Cable** **$210**

ISA Bus Mastering Card, 1x CDR, SCSI Cable, Power Cable and Screws
TRX143 **ISABus Mastering Card** **$119**

PCI Bus Mastering Card, 1x CDR, SCSI Cable, Power Cable and screws
TRX145 **PCI Bus Mastering Card** **$119**

Mitsubishi Consumables and Storage

Scratch and win one of 10 luxury holidays to Barbados when you buy TraxData Gold CD Media. Thousands of other prizes to be won. (Ends December '97)

HOLIDAY GOLD PROMOTION 19/5/97 - 31/8/97

CD
TRX 103 Traxdata 74min CD Recordable Media with Datagard Protection (Gold/Gold) $5.99
TRX 105 Mitsubishi 74min Platinum CD Recordable Media with Coating (Silver/Blue) $5.99
TRX 135 Mitsubishi 650MB Rewritable CD Jewel Case $49
TRX 125 Mitsubishi 650MB CD Rewritable Cartridge $59

PressIT Labeller
TRX 107 White Labels for PressIT Labeller (pack of 50) $25
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TRX 110 Blue Labels for PressIT Labeller (pack of 50) $25
TRX 111 Gold Labels for PressIT Labeller (pack of 50) $35
TRX 112 Silver Labels for PressIT Labeller (pack of 50) $35
TRX 113 Clear Inkjet Labels for PressIT Labeller (pack of 50) $49
TRX 114 Clear Laser Labels for PressIT Labeller (pack of 50) $49

Storage disks
TRX 131 Mitsubishi IBM Formatted 3.5" Black Diskettes individually wrapped (box 10) ..$9.99
TRX 130 Mitsubishi IBM Formatted 3.5" Colour Diskettes individually wrapped (box 10)$10.50
TRX 132 Mitsubishi IBM Formatted 3.5" Black Diskettes in Library Case (box 10).....$9.99
TRX 133 Mitsubishi IBM Formatted 3.5" Colour Diskettes in Library Case (box 10).....$9.99

PressIT Custom CD Labeller

Give your CDs a professional image.

Custom Lable your CDs



The PressIT CD Labelling Kit uses a clever yet simple design, allowing you to put professional looking labels on your CDs. This neat and compact labelling system provides the perfect answer to all those CD labelling task which, up to now, have been a real problem. The PressIT uses special die-cut labels (available in a range of colours as well as clear plastic), which can be printed using either an inkjet or laser printer.

PressIT's unique system positions and applies the labels perfectly centered and bubble free every time.

Included in the package are 20 assorted labels and Design Express software that makes creative design straight-forward, together with templates for most MAC and PC based graphic packages.

For Macs: MSWord, Photoshop, QuarkXPress, Illustrator, Freehand, Pagemaker, Claris Works.

For PCs: CorelDraw!, Photoshop, QuarkXPress, Illustrator, Freehand, Pagemaker, MSWord

TRX106 **PressIT** **$79**

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IMS016



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Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

Viper V330

Introducing the true 128-bit accelerator.

DIAMOND MULTIMEDIA

NEW PRODUCT

Get ready to think fast with the ultimate 2D, 3D, and video accelerator. Diamond Multimedia's amazing new 128-bit Viper® V330 leaves all those 64-bit cards and the other "so called" 128-bit cards in the dust. The Viper, powered by NVIDIA's RIVA 128 chip, blazes through the most complex 2D business graphics with its huge 1.6GB per second bandwidth and 4MB 100MHz SGRAM memory. And, with its explosive new 3D engine, it won't ever compromise screaming fast frame rates for phenomenal animation and visual quality. As a result, the Viper delivers stunning realism for your 3D business and entertainment applications. If our unofficial testers could talk, they'd tell you that no other accelerator brings together such an impressive combination of 2D speed and 3D graphics.



Features
- Record-breaking acceleration for Windows NT and Windows 95
- Phenomenal 3D frame rates—supports 20 billion operations/second
- Engineered for Direct3D—the most widely-supported game API
- Advanced video features—supports TV-out for big screen computing
- Provides seamless upgradeability to TV tuner, video capture, and DVD
- Bundled with 8 hot business and gaming software titles, including iF-22: The Realistic Simulation of the F-22 Raptor and Moto Racer



DIA040 **Viper V330** **$409**

STEALTH II S220

Unbelievable combo of advanced 3D graphics and 2D acceleration.

DIAMOND MULTIMEDIA

NEW PRODUCT

Break through to brilliant graphic performance in every Windows application plus mind-blowing 3D and full-motion video for gaming, multimedia and Internet multimedia. Stealth II makes legendary Stealth performance more affordable than ever. Unlike other graphic accelerators that are strong in 2D or 3D, but not both, Stealth II delivers envelope stretching performance for everything from spreadsheet to shootouts. Stealth II is equipped with 4Mb of fast SGRAM, is designed for the PCI bus and is windows 95 plug and play compatible. Plus it includes a game sampler CD ROM and is upgradeable to must have technologies including DVD, TV tuning and video capture.



Features
- Outrageous speed
- Millions of colours
- Radical 3D Gaming
- Breakneck Windows performance
- Advanced 3D Rendering for Unbelievable 3D Gaming
- 4 Mb Fast SGRAM Memory for Optimum Graphics Display
- Upgradable to DVD, TV tuner and Video Capture

FREE! Game sampler CD-ROM including Forsaken, Motor Racer, Half Life-AVI and SODA Off Road Racing, Terracide and Wipe Out XL.

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DIA041 **Diamond Stealth II** **$235**

HP SureStore CD-Re Writable

7100i/7100e

- **Write, update and rewrite**
- **Create CDs for CD-ROM and audio players**
- **Simple as a floppy with all the qualities of a CD**

NEW PRODUCT



The new HP SureStore CD-Writer Plus offers you versatility. Think of RW-CD rewritable discs as a high capacity, durable floppy. With the HP SureStore CD-Writer Plus you can write, update, erase and rewrite up to 650 MB of data on a single CD, up to 1,000 times per sector per disc. Or make your CDs on CD-R media creating permanent archives of all your critical data with the assurance that the data is secure for up to 100 years.

Share information. With millions of CD-ROM readers worldwide, recordable CD is the ideal way to store and distribute powerful, effective and impressive multi-media presentations. And now with rewritable technology you can easily share or update information.

The HP SureStore CD-Writer Plus has built-in versatility. You can read all your existing data and music CDs, burn CD-R media and use the latest technology in write and re-write CDs.

It's easy to make your own CDs. HP SureStore CD-Writer Plus is the simplest way to make CDs. The CD-Writer Plus comes complete with everything you need to begin making CDs right away, including a blank HP CD-WR rewritable disc. A Multimedia QuickTour gets you up and running in minutes and the Intuitive software, included with your HP SureStore CD-Writer Plus, lets you create CDs with a simple drag and drop.

Package includes:
7100i - Internal drive: installation guide (CD), Adaptec Direct CD, Easy-CD Audio, CD Copier and Jewel Case Designer software, IDE data cable and one blank HP CD-WR Disc.
7100e - External drive: installation guide (CD) Adaptec Direct CD, Easy-CD Audio, CD Copier and Jewel Case Designer software, driver diskette, parallel data cable, audio cable, power supply and one blank HP CD-WR disc.

HEWLETT-PACKARD SureStore INFORMATION STORAGE

Designed for Microsoft Windows 95

Features:
- Rewritable
- Easily connects to PCs parallel port interface
- Simplicity in making your own CDs
- Potable - share between PCs, laptops or locations
- Meets industry standards
- Performance - 2X recording speed allows you to write 100MB in approximately five minutes
- Multi-session compatible
- Capacity - 650 MB data or 74 min audio
- Durable media - up to 100 years shelf life (CD-R)
- Hewlett-Packard Customer Support via BBS, Website or Telephone
- Includes one year limited product warranty.

HWP250 **HP 7100I (Int)** **$809**

HWP251 **HP 7100e (Ext)** **$989**

HWP252 **HP CD Rewritable CD** **$45.95**

LNX001 **Writable CD (5 pack)** **$45**

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SuperDisk

The Future of Data Storage



The Imation SuperDisk diskette is a 120MB diskette bases on the high-capacity LS-120 diskette technology developed by Imation.

SuperDisk LS-120 Drive

This is the only high-capacity bootable drive solution that also reads and writes standard 1.44MB diskettes, of which there are billions in use today around the world.

Backwards Compatible

The SuperDisk LS-120 drives are backward compatible so that they can read and write all 3.5", diskettes both in 1.44MB and 720KB formats. This unique advantage means that all of the important information and data currently stored on those billions of 3.5" diskettes in use world-wide can still be accessed.

High Speed

SuperDisk LS-120 drives spin at high speed and can generate substantially faster data transfer rates. The transfer rate is up to five times faster than conventional diskette drives. Even when using conventional diskettes and are up to three times as fast as conventional drives.

Features

- Accepts all SuperDisk LS-120 and standard 3.5" floppy diskettes
- Moves files up to five-time faster than conventional drives
- Even faster with Performance Accelerator software -faster than a parallel Zip Drive
- Just plug the SuperDisk Driver into the printer port and run the installation software.

IMA003 **SuperDisk LS-120 Drive** **$275**

SuperDisk

LS-120 Diskettes



The SuperDisk LS-120 diskette looks similar in size and shape to the standard 3.5" diskette, and is just as simple to use 120MB capacity.

Large 120MB Capacity

With 120MB of usable capacity, a SuperDisk features 83 time more capacity than a conventional 1.44MB diskette. That's enough storage capacity to hold a blueprint for 30-story building ... or 100 spreadsheets ... or 300word processing documents or a complete interactive presentation on one SuperDisk.

SuperDisk diskettes are 20 megabytes bigger than Zip disks with a lower cost per megabyte.

Features

- 120MB storage capacity
- Same size, shape, functionality as standard diskettes
- Look and feel just like standard diskettes
- More storage for your money
- Holds up to 83 standard diskettes

IMA004 **SuperDisk LS-120 Diskette (3-Pack)** **$79**

IMA005 **SuperDisk LS-120 Diskette (5-Pack)** **$119**

IMA006 **SuperDisk LS-120 Diskette (10-Pack)** **$225**

SONY StorStation

Ultra-Compact Ultra-Fast Ultra-Easy

The Sony StorStation Tape Drive, with a capacity for up to 2.0GB, it's a great way to backup your hard drive.

The StorStation is easy to install, taking only minutes and connects to the parallel port for convenience. It is also small, light and very portable.

The StorStation lets you protect the contents of your hard drive just by clicking an icon. You can also schedule backups, so even if you forget, the StorStation does not. You can also perform Backup in the background. This function lets you continue to use your computer, as your hard drive is being protected.

Restoring is just as easy with a simple click, as with the copy function from tape-to-disk and disk-to-tape.



SONY

Features

- 2.0GB Capacity (with compression)
- Parallel Interface Cable Included
- One-Step Backup
- Easy installation
- Includes powerful software for DOS Win 3.1 & 95
- One QW2GB Data Cartridge

Stock Code: SONY21

$325

Sony QW2GB data cartridges

Sony QW2GB data cartridges, the reliable and versatile solution for data backup. With a maximum of 2GB capacity, compatible with Sony Storestation and Ditto Drives.

SONY20 **Sony QW 2GB data Cartridge (5 pack)** **$209**

SONY CD-ROM Recorder

Spressa Recordable CD-ROM (CDOR) Drives - 2x Write/6x Read

Create your own CD-ROM discs or back-up/archive with your data with the Sony Spressa, Recordable CD-ROM Drive. With the Spressa, creating CD's is easy, efficient and inexpensive. Whether it's a document, database, image file, multimedia presentation or other information, the Spressa provide users the capacity to retain, distribute and access data.

Bundled with the Spressa is CD Creator Mastering Software, enabling users to enjoy ease of use and powerful functions. The robust features of the CD Creator include Disc Wizard for assisting the disc creation process, a jewel case editor for creating customised inserts, video CD and Photo CD creation capabilities, CD duplication services and studio (WAV) file editing capabilities.

Spressa CD-R drives are compatible with Windows 3.x, Windows 95 and Windows NT

Supplied Accessories:

- One CD-R Disc
- Drive Letter/Number Labels
- Disc Caddy
- Audio Cable
- Internal SCSI Cable



SONY

SONY22 **Sony Spressa External** **$1209**

SONY23 **Sony Spressa Internal** **$969**

Sony Recordable CD media

Sony CD-R media has a large 650MB recording capacity for digital data: computer, audio and digital video. These Write-once CDs are extremely reliable and ideal for a wide range of applications.

SONY24 **Sony CD-R media (10 pack dual case)** **$109**

Choose a Free CD with every order!*

*Full product as shown - OEM packaging. Packaging shown for display purposes only.

1. **MasterClips 1000**



A collection of professional colour clipart

2. **Starfish Internet Utilities**



Manage your diary, contacts, meetings and communications via the Internet.

3. **Bodyworks V3**



Learn all about the human body with multimedia guide.

4. **TurboCAD V1 Windows**



The most significant release of any CAD software this decade

5. **EZ Language Version 1**



EZ Language V1 is the fun & easy vocabulary pronunciation tutor for 7 different languages

6. **Leonardo the Inventor**



A multimedia exploration of the life works of Leonardo da Vinci. (Use 3D glasses)

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STORAGE

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EVERYTHING FOR YOUR PC - DELIVERED NATIONWIDE!

FX Fighter Turbo & FX Fighter!

HIL001

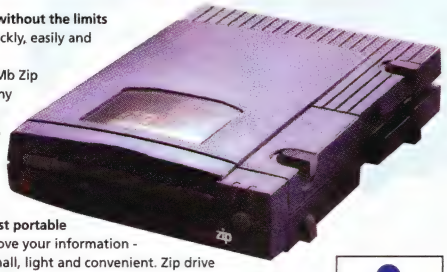


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With This Pack You Don't Have To Wait For The Sequel- You Get It FREE!

For a limited time only.

ZIP An affordable personal storage solution in one!



Expand your hard drive without the limits
Increase your storage quickly, easily and economically - as you need it. With 100Mb Zip Disks, you can add as many disks as you need and if you're using compression software, you can keep up to 200MB of your stuff on a single Zip drive.

The newest smallest, most portable drive. The best way to move your information - Zip drive and disks are small, light and convenient. Zip drive weighs about 450g and fits easily in your hand,bag or briefcase.

- **Expand your hard drive without the limits** (100MB at a time)
- **Take it with you** (Zip drive and disks are portable)
- **Backup your hard drive** (fast and easy)

zip 100 parallel port

iomega

IOM022	Zip Drive External (Parallel port)	$259
IOM020	Zip Drive External (SCSI port)	$259
AUP157	Zip Drive Internal 3.5 (Includes SCSI Controller Card)	$259

JAZ Jaz is the perfect choice for hard drive upgrades!



An ideal answer for multimedia
Jaz drives and disks are the ideal solution for storing, transporting and playing multimedia applications. You can pack up to 1 gigabyte on each disk, and there is no limit to the number of disks you can use. The jaz drive's speedy access times and rapid transfer rate mean you can quickly and easily move files around. And the Jaz drive can handle even the most demanding usages, including full-screen full motion video.

- **Faster than most hard drives** (Works as fast as you do)
- **Provides 1GB of disk space on each compact cartridge** (Enough to back up your entire hard drive)
- **Portable- goes where you go** (makes transporting information easier)

jaz 1GB drive portable scsi

iomega

IOM023	JAZ drive (SCSI External)	$699
IOM021	JAZ drive (SCSI Internal)	$509
IOM030	JAZ (Ext) + Adobe Ilustrator V7 + Action Pack	$1059

ZIP & JAZZ DISKS



AUP160	3x ZIP 100Mb PC Disks	$79
IOM030	10x ZIP 100Mb PC Disks	$219
AUP161	3x ZIP 100Mb Mac Disks	$199
IOM044	6x ZIP 100Mb PC Disks	$149
IOM032	3x JAZ Media PC Disks	$449
AUP162	3x JAZ Media Mac Disks	$449
AUP163	JAZ Traveller (Transfers data from a Mac to a PC)	$69

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

HP Colorado 5GB and 5GB External

Breakthrough performance for notebook PC and desktop PC backup

Looking for a PC backup solution that won't keep you waiting? The new HP Colorado 5GB and 5GB external delivers dazzling performance.

Both provide an impressive capacity of up to 5GB on a single data cartridge. The HP Colorado 5GB stores data at a rate of up to 55MB per minute, while the 5GB external stores data at a rate of 40MB per minute. And because it is extremely light, the external model makes a great companion for your portable PC.
Included with the 5GB is the Install Assistant software which automatically detects your system configuration, and guides you through the installation of your internal drive, step by step. Using your tape drive is just as easy, with a choice of one-button or automated daily backups.
And should disaster ever strike, the Windows 95 disaster recovery software gets you back in business fast by allowing you to do a full restore of your hard drive without first having to reinstall your Windows 95 operating system.

NEW PRODUCT

Ideal for notebook PC and desktop PC backups.



Features:
- 2.5GB native capacity, up to 5 GB compressed
- 40-55MB/min backup speed
- Includes Colorado Backup by Computer Associates for Windows 95, Windows and DOS
- Supports Windows NT 4.0 backup utility
- Install Assistant software for easy installation and configuration of internal drives
- Disaster recovery for Windows 95
- Low cost HP Colorado 5GB media
- Two year limited warranty

HEWLETT PACKARD
Registered Reseller

HWP301	HP Colorado 5GB Internal	$399
HWP302	HP Colorado 5GB External	$529
HWP303	HP Colorado 5GB Minicartridge	$49

All prices INCLUDE sales tax. Prices subject to change, see page 3 for terms & conditions.

For the cost of a local call **Orderline 1300 360 799**

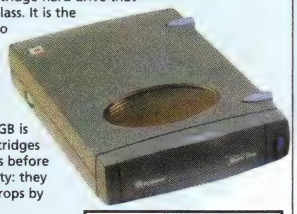
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VISA MasterCard bankcard

SyJet 1.5GB
Bigger, Faster and Better

SyJet is designed to offer maximum performance flexibility and reliability, at tremendous value.

SyJet 1.5 GB is a high-performance removable cartridge hard drive that boasts the highest capacity of any product in its class. It is the logical choice for professional musicians and audio mixers, digital video editors, graphic designers and desktop publishers, multimedia developers, webmasters, presenters, road warriors, engineers, gamers who want screaming performance, and countless others.



Like all SyQuest removable hard drives, SyJet 1.5 GB is built in Class 100 clean rooms. Each drive and cartridges are shock-resistant and must pass drop shock tests before qualification. Cartridges are designed for durability: they are designed to survive falls from desktops and drops by users.

SyJet Means SPEED

SyJet's unique design provides a high-performance minimum sustained read/write data transfer rate of 3.7MB/sec. - fast enough to sustain full motion video without dropping frames - while approaching a maximum data transfer rate of 7MB/sec. The SCSI burst is 10MB/sec. An EDIE (PIO Mode 4) version allows a burst up to 16.6MB/sec. similar to the rate attained by today's IDE-based fixed hard drives.

SyJet™ 1.5GB



What the press are saying

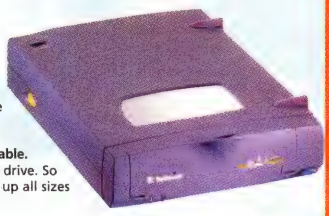
"SyJet: A Better Way to Store your Stuff" - Macworld, May 97.

"Sleek in looks and fleet in performance, the SyJet 1.5GB matches or exceeds the performance of the Iomega Jaz drive and offers more capacity" - Windows, April 97.

SYQ020	Internal SCSI Kit 1.5GB (PC)	$569
SYQ021	Internal SCSI Kit 1.5GB (Mac)	$569
SYQ022	External SCSI Kit 1.5GB (PC)	$759
SYQ023	External SCSI Kit 1.5GB (Mac)	$759
SYQ024	Internal EIDE Kit 1.5GB (PC)	$569
SYQ025	External Parallel Port Kit 1.5GB	$759
SYQ026	1.5MB Media for SyJet - PC	$219
SYQ027	1.5MB Media for SyJet - Mac	$219

EZFlyer 230MB
External SCSI & Parallel Port
Internal EIDE

The world of personal computer storage is changing, fast. Files are huge and getting bigger. The floppy is no longer big enough and the fixed hard drive is just that fixed, and difficult to upgrade.



The EZFlyer 230 from SyQuest solves the storage problems of today, better than any other product. It combines the flexibility of a data cartridge three and a half inches square with the blazing speed of hard drive technology.

Instant access to files. Random access. Bootable.
The EZFlyer 230 works just like a fixed hard drive. So quickly referring to, updating, and backing up all sizes of files on a continual basis is a breeze.

Super fast hard drive
The EZFlyer 230 is a hard drive; one that never fills up. The EZFlyer 230 is the only removable cartridge in its price range. It uses the same proven components as fixed hard drives and provides speeds significantly faster than other technology.

Endless Capacity
It's amazing how fast your fixed drive fills up. With the EZFlyer 230, when you need more space, you simply add more cartridges.

EZFlyer™ 230MB

What the press are saying

"High Flyer Offers EZ Data Storage"

"The EZFlyer Really soars"

"Installation was a snap"

"The EZFlyer is light enough to be portable, rugged enough for constant use and quit even in close quarters" - Windows, October 96.

"The EZFlyer 230 is a dream to use - it simply appears as another hard disk drive." - Home Office Computing, November 96.

SYQ028	External SCSI Kit (PC)	$299
SYQ029	External SCSI Kit (Mac)	$299
SYQ030	Internal EIDE Kit (mount in 5.25")	$299
SYQ031	External Parallel Port Kit	$299
SYQ032	230MB Media for EZFlyer (PC)	$55
SYQ033	230MB Media for EZFlyer (Mac)	$55

Western Digital CAVIAR Hard Drives

Western Digital

Western Digital CAVIAR hard drives are customer-focused to bring you affordable high capacity storage solutions. Each enhanced IDE (EIDE) hard drive comes with a three year warranty. Each is fully tested to ensure compatibility, reliability, and exceptional quality. Western Digital Hard Drive Kits provide everything you'll need to get your new drive up and running: hard drive, mounting hardware, cable, and detailed instructions. Also included is free installation software designed to work with Windows 32-bit disk access, Windows 95, windows 3.1x, Windows NT, OS/2 2.1x, and OS/2 Warp. This software successfully overcomes two potential system BIOS limitations, and makes installation a breeze.

Physical Specifications

Model	Caviar 2.1	Caviar 2.5	Caniar 3.1	Caviar 4.0	Caviar 5.1
Interface	40-pin EDIE	40-pin EDIE	40-pin EDIE	40-pin EDIE	40-pin EDIE
Formatted Capacity	2111.8MB	2559.8MB	3166.7MB	4000.7MB	5163.5MB
Actuator Type	Voice Coil	Voice Coil	Voice Coil	Voice Coil	Voice Coil
Bytes per Sector	512	512	512	512	512
User Sectors per Drive	4,124,736	4,999,680	6,185,088	7,814,016	10,085,040
Servo Type	Embedded	Embedded	Embedded	Embedded	Embedded
ECC - Reed Solomon	Yes	Yes	Yes	Yes	Yes
Dedicated Landing Zone	Yes	Yes	Yes	Yes	Yes
Actuator Latch/Auto Park	Yes	Yes	Yes	Yes	Yes
Recommended Setup	4092x16x63	4960x 16x63	6136x16x63	7752x16x63	10672x16x63



Performace Specifications

	4.0GB	All Other Drives
Seek Times:		
- AverageRead Seek	11ms	Sub 12ms
- Track to Track	3.0ms	3.0ms
- Full Stroke Seek	21ms	22ms
Average Latency	5.8ms	5.76ms
Rotational Speed	5200RPM	%200RPM
Data Transfer Rate:		
- PIO burst	16.6MB/s	16.6MB/s
- DMA	16.6MB/s	16.6MB/s
Read Cache	Adaptive Segmented	Adaptive Segmented
Write Cache	Yes	Yes
Buffer	256KB	128KB
Start/Stop Cycles	40,000 min	40,000 min

WES050	2GB Drive Kit	$359
WES051	3.2GB Drive Kit	$429
WES052	4.3GB Drive Kit	$469
WES053	6.1GB Drive Kit	$699
WES054	6.4GB Drive Kit	$719

Internet Address: www.wdc.com

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- **Massive Stocks** — Our aim is to fulfil 95% of orders from stock. Our financial stability enables us to hold more than 10,000 items in stock at any one time.
- **All Welcome!** — We always service the individual buyer, small business and large corporation to the same high standard.
- **No.1 Service** — As an international company we have won more awards for products and services than any software mail-order company.

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SCANNERS

INTERNATIONAL SOFTWARE WAREHOUSE Pty. Ltd.

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MICROTEK High-Tech Scanning

All Microtek Scanners Offer

- *ScanWizard for Windows 3.1, 95, NT & Mac*
- *OmniPage LE OCR for Windows and Mac*
- *Top quality Image Editing software*
- *Fast 1 Pass Colour Scans using a true colour CCD.*
- *"Simple SCSI" or genuine Adaptec SCSI card. 3ft cable.*
- *SCAN/COPY Utility (Scan to Fax card, printer or disk).*
- *Optional document feeder or transparency adaptor.*

Most software and drivers are supplied on CD

Millennium Busters!

MIL101



Millennium Buster **No.1**



Millennium Buster **No.2**

Only $24.95

The millennium bug - is your Computer year 2000 Compatible?

For a limited time only.

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

MICROTEK 35T Plus



- High-speed, high-resolution dedicated 35mm Slide Scanner
- 3,900 x 1,950 DPI Optical
- 3,900 DPI Interpolated
- Scans both negatives and positives.
- Scans strips or mounted slides.
- Imaging Magazine Editor's Choice.

35mm slides are far more difficult to scan than standard photos. The 35TPlus is designed to scan purely 35mm slides, delivering not only the higher resolution required for slides, but also by eliminating the use of mirrors and glass, it delivers much sharper images.

PRO504 Microtek 35T Plus..... **$1049**

ScanWizard

Free with Microtek Scanners

According to PC MAGAZINE "arguably the best in the business", ScanWizard gives you complete control over your MICROTEK scanner and the way you want your images scanned.

To scan an image, you first select colour, greyscale or line-art output. A live preview then shows you what is on the scanner's flatbed so you can select 1 or more images. You can of course simply use default automatic settings and by clicking on SCAN effortlessly obtain a top quality scan which will be very very close to the original !

With ScanWizard, matching the quality of your original image is not a challenge, simply a starting point. Why not make the image look better than the original? Based upon what you see on the screen, you can apply at time of scanning a host of image enhancements and filters. You may prefer a softer or sharper looking image. By boosting the colour saturation, you may want to give your pictures that "travel brochure look". You are in control !





Each time you apply a filter you can see the result on the screen, thanks to ScanWizard's Live Preview which shows you before and after images. This makes ScanWizard more fun, more powerful and easier to use than other scanning software.

For the advanced user, ScanWizard also includes a host of features like batch scanning, de-screening, exposure control, curves and levels, zoom preview and much more !

SCAN / COPY Utility

Quick-panel let's you scan directly to your existing printer, fax card or disk file. For Windows 3.11/95. **FREE** with all MICROTEK Scanners.



Transparency Media Adaptor

The Transparent Media Adaptor (TMA) lets you scan 35 mm slides and photographic transparencies up to 8x10". Very easy-to-install (clips on; no screws!), it simply replaces the scanner's lid

Adobe Photoshop 4

CD version.Special price if ordered with a MICROTEK scanner: ***$259***

Automatic Document Feeder.

For unattended scanning in line-art mode for use with O.C.R. software. Simply replaces the scanner's normal lid.

MICROTEK E3



- 600 x 300 DPI Optical
- 4,800 DPI Interpolated
- A4+ Size (8.3 x 13")
- Windows Sources BEST Value
- Brighter, clearer images than other SOHO scanners

The MICROTEK E3 is priced for the SOHO market yet still offers an image quality in line with much more expensive scanners. It also offers the same high level ScanWizard scanning module as the rest of the MICROTEK range, setting it appart from other SOHO scanners in terms of features and ease of use.

PRO501 Microtek E3 ..... **$349**

MICROTEK E6

The new standard for affordable high quality Scanning



- 1200 x 600 DPI Optical
- 9,600 DPI Interpolated
- A4+ Size (8.3 x 13")
- Captures 4 times the detail of entry level "600 dpi" scanners.
- "Everything you could ask for in a high resolution scanner".
- PC WORLD Editor's Choice

The MICROTEK E6 offers a slightly sharper image and improved shadow detail compared to the E3. It also captures 4 times the level of detail compared to entry level scanners, which makes it an ideal choice for getting the best possible results when scanning logos, small text or if you want to get the most out of your pictures. It includes a full CD edition of PhotoImpact, probably the best software for preparing web images and the easiest to use for non-professional users.

PRO502 Microtek E6..... **$699**

ScanMaker3

The best Quality Flat Bed Scanner



- 36 Bit Colour (1 pass)
- 1,200 x 600 DPI Optical
- 9,600 DPI Interpolated
- A4+ Size (8.3 x 14")
- Best optical quality. The professional choice
- PC MAGAZINE Editor's Choice.

The Scanmaker 3 features true 36 bit processing and 36 bit colour correction, super fast processing at high resolutions, very low noise electronics, plus a higher quality lens and CCD compared to normal scanners.The result: a professional scanner capable of capturing ultra-fine detail from logos, maximum clarity and sharpness from photos.When used with a transparency option, it provides an impressive 3.4 dynamic range, which means it captures more shadow detail than any other flatbed scanner anywhere near this price range. It's no wonder that the Scanmaker 3 is used throughout australia by professional users and has been acclaimed by publications like publish, PC Magazine, PC world and Byte.

PRO503 ScanMaker3..... **$2099**

PRO506 TMA for MICROTEK E3 or E6..... **$549**

PRO509 TMA for ScanMaker 3 ..... **$549**

PRO508 Photoshop 4 with Microtek E6, 35T, or SM3..... **$259**

PRO510 Automatic Document Feeder E3/E6/SM3 ..... **$599**

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PRINTERS

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

EPSON Stylus Color 300

True 4 Colour Prints



The new EPSON Stylus Colour 300 offers true, four colour printing at a price that virtually everyone can afford. With the superb detail and quality of EPSON'S PerfectPicture Imaging System, and a high-resolution 720 dpi Micro Piezo print head, it delivers photo-quality colour images that will take your breath away.

- 720 dpi Micro Piezo printing
- Affordable 4 Colour Printing
- Crisp black text
- Fast Set-up & Easy-to-use software
- Photo-quality printouts - even on plain paper
- Epson Answers CD-ROM included with every printer provides easy to follow instructions for day to day printing tasks. The Epson Answers CD-ROM support Windows 3.1x and Windows 95 operating systems only
- Compatability with a variety of image processsing software means you can create colourful cards, calenders and more

NB * The page per minute print speeds are a guide only. Actual print speed may vary under different conditions

EPS138 Epson Stylus Color 300. **$249**

EPSON Stylus Color 400

Stunning Quality



The Epson Stylus Color 400 is is a high quality inkjet printer providing 720 x 720 dpi photo-real output with the addition of some new and exciting enhancements. It is the ideal printer to provide superb 720 dpi results for the home user for both business and personal documents, on all types of paper including plain.

- Up to 720 x 720 dpi high resolution printing in black and white and colour - even on plain paper
- Fast print speeds up to 4ppm* in Monochrome and 3ppm* in colour
- Photo quality output as standard - no additional option required
- Easy-to use printer driver with EPSON answers On-Line manual CD-ROM
- Exclusively for Windows only, using EPSON printer driver technology
- The new standard in personal printing performance for home, home office and small business.
- Perfect for greetings cards, calendars, letterheads, reports, presentations, resumes, images and correspondence

NB * The page per minute print speeds are a guide only. Actual print speed may vary under different conditions

EPS134 Epson Stylus Color 400. **$359**

EPSON Stylus Color 600

1440dpi Photo real output



The Epson Stylus Color 600 is a high quality inkjet printer providing 1440dpi photo-real output, ideal for in-house desktop publishing and business and personal documents on all types of paper, including plain. The Stylus Color 600 features Epson's new Perfect Picture Imaging System, including MicroPiezo Technology for small accurate inkdots and AcuPhoto Halftoning Technology for accurate colours and smooth graduation. The printer is fully compliant with Windows 95 ICM and Macintosh.

- Up to 4ppm* colour, 6ppm* mono printing
- Photo quality printing up to 1440 x 720dpi
- Superb plain paper printing up to 720 x 720 dpi
- Windows & Mac compatible
- Advanced Dual Ink cartridge system with Quick-Dry ink
- Super MicroDot technology produces smaller, precise dots for sharp edges and smooth reproduction of photo images.
- Windows 95 ICM and ColorSync. 2.0 compliance
- The best all-round, high resolution personal printer for home office and small business
- Ideal for presentations, photo image reproduction, reports, flyers, newsletters, letterheads and correspondence

NB * The page per minute print speeds are a guide only. Actual print speed may vary under different conditions

EPS135 Epson Stylus Color 600. **$499**

EPSON Stylus Color 800

Ultra Fast Colour



The Epson Stylus Color 800 provides the business user with high-speed colour or mono printing, taking advantage of its high speed colour printing it is designed for multi-platform compatibility and networking. The Epson Stylus Color 800 features Epson's new Perfect Picture Imaging System, including MicroPiezo Technology and AcuPhoto Halftoning Technology.

- Up to 8ppm* mono, 7ppm* colour printing
- Photo quality printing up to 1440 x 720dpi
- Superb plain paper printing up to 720 x 720 dpi
- Optional Postscript & Network compatibility
- High capacity dual ink cartridge system with quick-dry ink
- Super MicroDot technology produces smaller, precise dots for sharp edges and smooth reproduction of photo images.
- Windows & Mac compatible
- The high performance, photo quality printer for business and graphics professionals

NB * The page per minute print speeds are a guide only. Actual print speed may vary under different conditions

EPS136 Epson Stylus Color 800. **$729**

EPSON Stylus Photo

NEW PRODUCT



Professional Photo-Reproduction Quality as easy as 1,2,3! With the EPSON Stylus Photo, it is easy to print professional-quality colour images yourself. With EPSON'S Micro Piezo printing and PerfectPicture Imaging Systems the EPSON Stylus Photo delivers outstanding photo-reproduction quality images with rich, natural colour.
The EPSON stylus Photo offers full support for both Windows and Mac os, and features a number of software extras for enhanced creativity. The printer driver's new EPSON PhotoEnhance function allows you to correct exposure values and colour balance with just a single mouse click, and bundled LivePix software lets you add special creative effects like antiquing, embossing and distortion.

- Photo reproduction quality at 720 x 720 dpi
- Bundled software for enhanced clarity and
- 2 minutes to print 4" x 6" photo image
- Versatile paper handling

NB * The page per minute print speeds are a guide only. Actual print speed may vary under different conditions

EPS156 Epson Stylus Photo. **$789**

EPSON FilmScan 200



Studio Quality

Studio-Quality Scanning at Home
EPSON'S FilmScan 200, the film scanner makes it easy to scan positive and negative films directly into your computer. In addition to superior image quality, the FilmScan 200 gives you the convenience of continuous batch scanning for high-speed throughput. It's the quickest and easy way to digitize your film library and preserve your favourite images forever.

- Scan direct from film
- Convenient Batch Scanning
- Accepts multiple film formats

- 35mm strip film (Negative and Positive, Colour/Monochrome)
- 35mm slides (Mounted/Unmounted) Positive, Colour/Monochrome)
- Film mounts (less than 2mm thick)
- Maximum read area and pixels 35mm film - 24 x 36mm (1 frame) 1,200 dpi
- Bundled software including PictureWorks, PhotoEnhancer, and Presto! PhotoAlbum

EPS200 Epson PhotoScan **$949**

EPSON PhotoPC 600

Feature Packed



Affordable High-Resolution Digital Photography 810,000 Pixels of imaging power. Superb digital image quality and full-featured camera performance comes together in the new EPSON PhotoPC 600. Featuring 810,000-pixel colour CCD and a built-in 2-inch TFT monitor, this exciting new camera makes high-resolution digital imaging an affordable reality.
The advanced colour CCD sensor captures an astounding 810,000 pixels, delivering 1024 x 768 XGA or 640 x 480 VGA images in brilliant, 24-bit colour. Storage capacity is high, with 4MB of internal memory that can be expanded imply by inserting an optional 4MB or 15MB Compact-Flash card in the external memory card slot.

- Wide angle lens with 3x Digital Step zoom
- Panorama Mode
- Macro & Monochrome Modes
- Multi Mode captures 9-shot sequence in a single frame
- Bundled Software
- 4MB memory
- 1024 x 768 pixels (super fine mode)

EPS201 Epson PhotoPC 600 **$1299**

EPSON GT 9500

NEW PRODUCT



Professional-quality High-speed 12 Bit Colour Scanning. The new GT-9500 offers superior image quality and high throughput that professional's demand. Image quality is superb, with 600 dpi scanning that can be boosted to 4800 dpi by using the digital zoom. And TWAIN-compliant scan handling software gives you the convenience of auto-scaling, as well as an auto-reversal function that lets you view negative film images as colour positives. With the GT-9500's 12 bit scanning, you get exceptional tone details and colour quality on both positive and negative film scans.

- 600 dpi resolution
- Zoom 50% to 200% in 1% steps
- 5,096 dots x 7,020 dots at 600 dpi
- 36-bit (68.7 million colours) internal
- Optional Transparency unit
- Optional 30-page automatic document feeder
- Text enhancement technology

EPS091 Epson GT 9500 **$1799**

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Choose a Free CD with every order!*

*Full product as shown - OEM packaging. Packaging shown for display purposes only.

1. **MasterClips 1000**



A collection of professional colour clipart

2. **Starfish Internet Utilities**



Manage your diary, contacts, meetings and communications via the Internet

3. **Bodyworks V3**



Learn all about the human body with multi-media guide

4. **TurboCAD V1 Windows**



The most significant release of any CAD software this decade

5. **EZ Language Version 1**



EZ Language V1 is the fun & easy vocab-ulary pronunc-iation tutor for 7 different languages

6. **Leonardo the Inventor**



A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

"Call our friendly, knowledgeable sales staff"



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EVERYTHING FOR YOUR PC - DELIVERED NATIONWIDE!

HP PhotoSmart System

PC photographs are ready in minutes

What is the HP PhotoSmart system?

Hewlett-Packard is setting a new standard for PC photography with the HP PhotoSmart PC photography system, including a digital camera, a photo scanner, a photo printer, photo imaging software and photo papers. (Note, the photo scanner, photo printer and photo papers will be available this summer). These products have been optimised specifically for photographic images. The quality is so good that you may not be able to tell the difference between an HP PhotoSmart print and a traditional photo!

How does the HP PhotoSmart system work?

With the HP PhotoSmart system, PC photography is easy! Start with a digital photograph or digitise an existing traditional photo. You can enhance it by enlarging it, cropping it, or using it creatively in any kind of project (let us Inspire you!). Or, you can simply print it. Either way, your PC photographs are ready in minutes. And, they look just the way you want them to look. With the HP PhotoSmart system, your photos and projects look so good that your friends and family may never guess that you did it yourself at home on your PC!

Kiss Rescue Me!

KIS003



Only $39.95

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Digital Camera

The fast way to get photos into PCs



Taking a photo with the HP PhotoSmart digital camera is as easy as point and shoot. It has auto focus and exposure, and built-in flash. Instead of film, it records images digitally on an economical HP PhotoSmart photo memory card. When a card is full you can insert a new card and take more photos. After the photos are downloaded to your PC, you can erase and reuse these cards. Once downloaded to your PC you can quickly view and select only your best photos you want to print in minutes or send your photographs by E-mail or over the internet.

Easy as point and shoot

Makes it easy to set photos into your PC

- Auto exposure, auto flash, and auto date and time recorder
- Continuous auto focus with macro mode lets you take pictures as close as 2.5 inches
- Comes with Microsoft Picture It! software that lets you easily enhance your photos and use them to create photo projects on your PC
- Step-by-step instructions and creative project ideas on CD-ROM

Removable, reusable photo memory cards replace film

- Capture up to 32 photos on the 2MB photo memory card included
- Once photos are downloaded, photo memory cards can be re-used
- Purchase additional 2MB and 4MB photo memory cards for unrestricted picture taking on vacations and special occasions

Specifications

- 640 X 480 resolution enhanced with PhotoSmart technology and 24-bit colour
- Seven element glass lens and enhanced optics for sharper pictures
- Continuous auto-focus 2.5 inches to infinity with Macro mode for great close ups
- Automatic exposure and 3-mode flash (auto, on, off) & 10 second self-timer
- Works with standard Windows 95 and TWAIN-compliant applications

HPS004 HP PhotoSmart Digital Camera $699

Photo Scanner

Scan photos, negatives, and slides into your PC

The HP PhotoSmart photo scanner is the quickest and easiest way to convert not only your existing photographs but also your slides and negatives. It's so easy that all you need to do is insert a photo, slide, or negative. Scan 35mm negatives and slides plus a variety of photo sizes from wallet-size to 5" X 7" enlargements. You can now make use of your negatives or slides for richer colours and greater detail for normal photos or enlargements.

Richer colours and greater detail

Making photo scanning easy



- Automatically launches the HP PhotoSmart photo scanning software when you insert the photo, negative, or slide.
- Completes a typical preview scan of colour prints in 10 seconds, final scans in less than a minute.
- Displays negatives for easy viewing and selection.
- Includes a special photo sleeve that protects and makes it easy to scan fragile photos and unique items such as concert tickets, newspaper or magazine clippings, etc.
- Step-by-step instructions and creative project ideas on CD-ROM

Scanner Specifications

- Dimensions 3.9" H X 8.0" W X 11.6" D
- Resolution 300 dpi optical for prints, 2400 dpi optical for slides and negatives
- Media Type Supported Photographic prints, 35mm negatives and 35 mm slides
- Maximum Scanable Photo Size Up to 5 X 7 inches
- Interface SCSI
- Data Source Full 32-bit TWAIN data source

HPS005 HP PhotoSmart Photo Scanner $999

Photo Printer

Richer colours and greater detail



Print real photos on your home PC

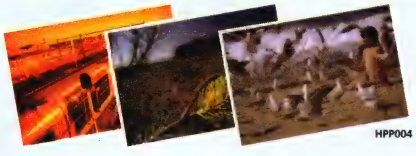
Print photos with the real look and feel of regular photos, suitable photo albums and framing using photographic papers that are comparable to what photo labs use but at a fraction of the cost.

Lets you do for yourself on your home PC what your photo lab does now

Make your own reprints, enlargements, and personalised photos. Produces quality text for personalised captions and greeting card messages. With built in flexibility produce enlargements as well do plain paper printing for kid projects and proofing.

Printer Specifications

- Print Speed 4 X 68 X 10
- Resolution Photographic Imaging Technology
- Multi-dye load thermal inkjet printing
- Memory RAM: 1MB ROM: 512KB
- Dimensions Height:162.5mm (6.4 in)



HPP004 HP PhotoSmart Photo Printer $999

Photographic Papers & Ink

All the supplies you'll need for the HP PhotoSmart PC Photography Printing System

With these special papers and ink, the projects you print with the PhotoSmart Photo Printer will look and feel like real photos. These special papers and ink are designed to produce photos like those you get from the photo processor. The paper has a special coating that controls ink interaction, producing clearer photos. The ink has been formulated to work effectively in very small drops. The result is more printable colours than any technology yet developed by HP for the home.

HP PhotoSmart Photographic Papers & Inks ..... $Call

Save $500 when you buy the complete HP PhotoSmart System for only $2189

Stock code: HPP005

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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PRINTERS

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

HP LaserJet 6L

Convenient Quality



The Hewlett-Packard LaserJet6L gives out-standing laser print quality at an affordable price. It is a complete, easy to use and convenient printing solution, the perfect replacement for the HP LaserJet 5L.

- 50% Larger Engine Speed
- 1Mb Memory
- 26 Scalable Fonts
- Up to 600 x 600dpi Print Quality
- 6000 Page Duty Cycle

Amazing Discount!

HEWLETT PACKARD Registered Reseller

HWP200 HP LaserJet 6L **$699**

HP DeskJet 400



Small footprint, small price tag, big performance.

The HP DeskJet 400 printer provides high-quality colour printing , yet takes up little desk space, operates quietly, and is ready to print vibrant and in full colour from the first time you turn it on. The included Colour Kit with snap-in ink cartridges gives you the versatility you need to produce both classic black and white documents and colourful marketing pieces. Exclusive HP ColorSmart technology makes adjusting colour for the greatest impact a breeze.

HEWLETT PACKARD Registered Reseller

Features

- Snap-in Colour Kit allows printing of full-colour materials
- Exclusive HP ColorSmart eliminates guesswork for vibrant colour at the touch of a button
- Prints up to 16.7 million colours
- Simple three-button front panel and intuitive on-line help with graphical user interface
- Compact design includes paper tray that folds up neatly when not used
- Automatic 50-page sheet feeding
- Up to 3ppm in black for fast, high-quality printing

HWP153 HP DeskJet 400C **$275**

HP DeskJet 692C

Versatile printer with breakthrough photo-quality colour!



The HP DeskJet 690C printer can create rich black and dazzling colour printed pieces from your home or office. Banners, labels, stickers, personalised cards and invitations. Even iron-on transfers. The HP RealLife System ensures true-to-life images. Outstanding print quality with brilliant colours and sharp, crisp blacks. You also get effortless results with HP ColourSmart – it automatically adjusts settings for perfect colour every time and includes Photo Pen.

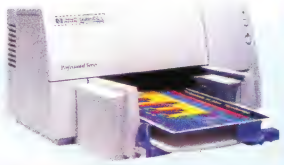
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HWP201 HP DeskJet 692C **$429**

HP DeskJet 870Cxi

Premium printing for professional quality

The HP DeskJet 870Cxi is a state-of-the-art printer for professionals who don't compromise in performance, print quality and network flexibility. With the RealLife Imaging System featuring C-REt Colour Resolution Enhancement technology - the HP DeskJet 870Cxi delivers vivid, attention getting colour, sharp blacks, and enhanced resolution. And at print speeds that help you complete even the most complex jobs quickly.



- Professional black quality
- Fast black output up to 8 pages per minute
- Fast colour output 4 pages per minute
- Network -friendly
- Black resolution Best mode 600 dpi
- Colour Resolution Best mode 600 x 300 dpi

HEWLETT PACKARD Registered Reseller

HWP025 HP DeskJet 870Cxi **$649**

HEWLETT PACKARD Registered Reseller

DESKJET PRINTERS

HWP168	HP DESKJET 340	$469
HWP153	HP DESKJET 400	$275
HWP203	HP DESKJET 670C	$349
HWP201	HP DESKJET 692C	$429
HWP027	HP DESKJET 820CXI	$619
HWP025	HP DESKJET 870CXI	$649
HWP220	HP DESKJET 1000CXI	$755
HWP006	HP DESKJET 1600C	$2379
HWP006	DESKJET 1600cm	$3469

LASERJET PRINTERS

HWP007	HP LASERJET 5L	$624
HWP200	HP LASERJET 6L	$699
HWP134	HP LASERJET 6P	$1189
HWP088	HP LASERJET 6MP	$1529
HWP171	HP LASERJET 4V	$3299
HWP222	HP LASER 4MV	$4899
HWP010	HP LASERJET 5	$1849
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HWP013	HP LASERJET 5N	$2399
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AUC109	HP Greeting Card Paper	$20.95

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Ink Cartridges - Deskjets & OfficeJet

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AUC112	Black Ink, DJ/DW600 Series	$39.95
AUC113	Tri-Chamber Colour Ink, DJ/DW600 Series	$44.95
AUC114	Colour Inkjet Photo Cartridge (DJ 690 only)	49.95
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AUC122	Black Ink, DJ 800, DJ1600 & DesignJet 700 Series	$44.95
AUC123	Tri-Chamber Colour DJ800 Series	$45.95

HP Toner

AUC125	Microfine Toner Cartridge LJ 5L (EP-A)	$99.95
AUC126	Microfine Toner LaserJet 5P, 5MP, 6P & 6MP	$129.95
AUC135	HP Toner Collection Kit Colour LaserJet 5 & 5MV	$39.95

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Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

Canon BJC - 5500

Full A2-size Colour and Monochrome Printing

Photo Realism

Discover the Bigger Picture in High-performance All-Purpose Business Printing. With wide-format printing (A2-size), accelerated speed and full colour capabilities, the BJC-5500 is the bigger, better solution for your heavy-duty office printing needs.

From posters and displays to correspondence and envelopes, the BJC - 5500 is the one printer for every office task. The extra wide carriage offers up to 16" of print width for all popular paper formats up to tabloid - size A2. For continuous, heavy-duty printing the built-in pin-feed tractor accepts standard fanfold paper. Add the optional auto sheet feeder with one or two paper bins and you'll have totally automated printing for up to 200 cut sheets as well.

The BJC - 5500 is very fast printing up to7 ppm in monochrome & handles coated and glossy papers, envelopes, high gloss film, black print film, transparency film and fabric sheets etc.

NEW PRODUCT



CAN225 Canon BJC5500 ... **$1329**

Canon BJC - 7000

Finished Output Like You've Never Seen Before

Photo Realism

Canon have re-defined, re-invented and changed printers; they've created a new class of printer! The Canon BJC - 7000 sees the introduction of P-POP for plain paper, second generation PhotoRealise, 99.4% water fastness and full bleed printing.

Here is just a few of the differences

P-POP: Optimises plain paper to perform like coated paper.

Second Generation PhotoRealism: 91 times more colour combinations per pixel than conventional CMY inks.

7 Colour printing process: High and low-density links produce 9 saturation levels per pixel on any medium.

99.4% water fast: Documents last longer, look better, with almost no fading, and are 99.4% water fast!

Breakthrough Ink Cartridges: The new ink system with larger ink cartridges uses up to 1088 nozzles firing 10,000 drops per second.

Higher Resolution: Prints up to 1200 dpi with ink drops that are 75% smaller than any previous Bubble Jet model.

Better Paper Handling: Prints widths up to full-bleed A4, and paper weights up to 550 gsm.

A new class of colour printing



CAN005 Canon BJC7000 ..... **$669**

Canon BJC - 80

Portable Colour Bubble Jet Printer

Photo Realism

With breakthrough colour, super fast blacks and cable-less communications.

The BJC - 80 combines the benefits of a personal laser, a photo quality printer, optional scanner, and, with appropriate software, a fax, all in one unit

The versatile BJC - 80 is small enough to slip into a brief case and by simply changing the cartridge from the colour cartridge to a dedicated black cartridge you can print laser like finish documents at speeds up to 5 ppm.

Colour Scanner. Convert your printer into a colour scanner (Scanner head optional). Pop out the print head and clip in the colour scan head, add the appropriate software and scan documents for faxing & OCR, or scan colour graphics for image manipulation.

Image Optimisation for the Internet. The BJC - 80 enables you to optimise low resolution Internet images, printing them out at the maximum resolution supported by your printer.

Cables-less communication. With the infrared port and the optional battery kit enabling you to print up to 200 pages the BJC - 80 offers cable-less operations; lugging cables is a thing of the past.

Portable Printing & Scanning



CAN001 Canon BJC80 Portable **$449**

Canon's Range of Printers/Scanners & Cameras

CAN003	CANON BJ210	$229
CAN057	CANON BJC240	$299
CAN046	CANON BJC4200(A4)	$369
CAN050	CANON BJC4550(A3)	$739
CAN040	CANON BJC620	$619
CAN047	CANON LPB-660	$579
CAN048	CANOSCAN CS-300	$479
CAN051	CANOSCAN CS-600	$699
CAN058	CANON POWERSHOT 350	$879
CAN039	CANON POWERSHOT 600	$1299

HYUNDAI DeluxScan Monitors

DeluxScan Monitors

Available in sizes from 14" to a massive 21" at highly competitive prices the Hyundai DeluxScan Monitor has all the features you would expect from one of the most innovative and successful electronics companies in the world. Manufactured to the ISO 9001 standard, all Hyundai Monitors are extremely energy efficient and comply with EPA Energy Star/ VESA DPMS power saving requirements. Such features allow Hyundai to back their Monitors with an exclusive three year on-site Australia & New Zealand-wide warranty* service.



Ergonomical front panel controls, higher refresh rates, flicker-free images and low emissions are standard on all Hyundai Monitors. Higher resolutions (up to 1280 x 1024) give you amazing clarity for every possible application, from Windows to high end graphics and imaging. So whether you want to design a complex 3D model or simply play, the Hyundai DeluxScan monitor is the one for you!

Features

- Three year on-site warranty available in Australia and New Zealand*
- Plug and play ready
- On screen digital displays
- Compliance with radiation & VESA DPMS standards
- Low-power usage
- Amazing resolution

free 3 YEAR Onsite Warranty

HYA001 Hyundai 14" Monitor **$319**

HYA002 Hyundai 15" Monitor **$459**

HYA003 Hyundai 17" Monitor **$855**

HYA004 Hyundai 21" Monitor **$2399**

Kodak DC210

Capture exceptional digital pictures with ease

NEW PRODUCT

The Kodak Digital Science DC210 Zoom Camera gives you the power to do it. Quickly. Easily. Affordably. With a 2X zoom lens so you can get closer to the action. And megapixel technology, to give your pictures vivid colours and dazzling detail.

Plus with Kodack Digital Science Picture Easy Software 2.0 you'll have the power to download, manipulate and share images. Check it out. It's got everything you need to Take Pictures.



KOD017 Kodak DC210 Digital Camera **$1479**

Kodak DC50

Zoom Lens - 3:1 zoom capability that gives you a focal length of up to 37mm. The flash offers three modes: automatic, on or off. Up to a 14' range. Slide cover doubles as your power switch, open and camera is ready to take pictures.

Internal memory - store up to 22 "good", 11 "better" and 7 "best" quality pictures for up to 1 year.

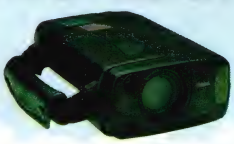


KOD003 Kodak DC50 Digital Camera **$799**

AUP120 DC-50 PCMCIA Card **$259**

Kodak DC120 zoom

Capture a wide shot, then zoom in for the detail with a 3:1 zoom lens - and th e LCD display lets you know instantly what you have shot. And with an erase feature you know you'll get the shot you want in rich prcise colour with high res 1.2M pixels 1280 x 950. Camera also features 2Mb of internal storage for up to 20 pictures and supports removable 2mb and 10Mb picture cards.



KOD008 Kodak DC120 Digital Camera **$1299**

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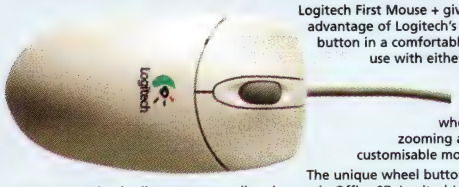
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Logitech First Mouse+

Your best value in a zooming/scrolling mouse



Logitech First Mouse + gives you the advantage of Logitech's unique wheel button in a comfortable mouse you can use with either hand. Use the wheel button as both a fully-functional mouse wheel for scrolling and zooming and a third, customisable mouse button.

The unique wheel button does more. While most mouse wheels allow you to scroll and zoom in Office 97, Logitech's wheel also gives you the convenience of scrolling in all your Windows '95 applications and on the Internet as well. This wheel is designed to give you easy, precise movement. It's also a mouse button, which you can easily customise, with a one-click command for extra productivity.

Scroll in Windows '95 applications. When you use the wheel to scroll in Windows '95 applications, you get full up and down scrolling instantly at the speed that's most convenient for you, without having to move the mouse or click on the scroll bar. First Mouse + also gives you the ability to AutoScroll allowing you to scroll diagonally or in any other direction. Click the button assigned to AutoScroll, then move the mouse to scroll freely through documents, such as spreadsheets, which are larger than the screen.

Features:
- Easier programmability and control panel access
- 1 year warranty

LOG060 **First Mouse +** **$48**

LOGITECH

MouseMan



Logitech MouseMan offers you an innovative shape that was designed with humans in mind. Textured grips make this mouse easy to hold and easy to use. Customise the four buttons with one-click commands to work faster and easier. Three of the buttons are on top and fall under your fingers. There's also a handy thumb button on the side.

Scroll in Office 97 and Windows '95. Use the MouseMan thumb button to scroll in Office 97, any Windows 95 application, and on the Internet. Simply click the button and move your mouse to achieve left/right, up/down can diagonal scrolling. Adjust scrolling speed by moving the mouse more quickly or slowly.

Customise the buttons with the click commands. Award-winning MouseWare software makes it simple to customise MouseMan buttons with only one-click commands. For example in Windows 3.1 and Windows 95, the middle button is assigned to double click. Just click the button once and it double clicks for you. Or, customise buttons with cut, paste, page up, page down, task list, or a long list of other shortcuts. It's simple.

Features:
- 3-year warranty
- Universal scroll and Autoscroll, and zoom in Microsoft Office and Microsoft Explorer
- New innovative shape
- MouseWare7.5
- Universal scroll and Autoscroll in all Windows 95 applications

LOG061 **MouseMan** **$79**

LOGITECH

Logitech MouseMan+



Logitech MouseMan+ combines an innovative new design with a wheel button that lets you work better in Office 97 and all your Windows '95 applications. Use this wheel button as both a fully-functional mouse wheel for scrolling and zooming and as a fourth, customizable mouse button.

Unique wheel button does more. Logitech's unique wheel button lets you do more. While most mouse wheels allow you to scroll and zoom in Office 97, this wheel also gives you the convenience of scrolling in all your Windows '95 applications, and on the Internet as well. This wheel is designed to give you easy, precise movement, It's also a mouse button, which you can easily customise with a one-click command for extra productivity.

Scroll in Windows '95 applications. When you use the wheel to scroll in Windows '95 applications you get full up and down scrolling instantly at the speed that's most convenient for you, without having to move the mouse or click on the scroll bar. MouseMan+ also gives you the ability to AutoScroll, allowing your to scroll diagonally or in any other direction. Click the button assigned to AutoScroll, then move the mouse to scroll freely through documents, such as spreadsheets, which are larger than the screen.

One-handed zooming in Office 97. Use the wheel and MouseMan+ thumb button for easy one-handed zooming in Office 97. Just click the thumb button, and roll the wheel to zoom in or out. You never have to touch your keyboard, and you can keep your eyes on your work.

LOG062 **MouseMan+** **$92**

LOGITECH

DEXXA Flatbed Scanner 4800 - 30 bit colour, for Windows 95

NEW PRODUCT



Best Value Scanner

- The first truly compact 4800 dpi scanner
- Easy to install and use, plugs into the parallel port
- Scan both images and text, then fax, copy and e-mail
- Save time through fast scanning speed, single-pass, and no worm-up time.

Dexxa Flatbed Scanner 4800 is the ideal partner to help you master the art of scanning promptly and easily. Scan pictures and use them to liven up all your documents, from business reports to original greeting cards and calendars, Can text and edit it just like keyboard text. You can even scan thick books by raising the covers hinges. The single scanning button gives your complete control of the task: it lights up to indicate when power is on and flashes during the scanning process. This practical, fast and compact scanner enables you to produce professional standard results.

Additional features
- 300 x 600 dpi optical resolution (4800 x 4800 dpi enhanced), 30-bit colour scanning
- Touch up and personalise your image with Adobe PhotoDeluxe
- Forget retyping: Xerox TextBridge OCR allows you to edit scanned text
- Parallel port connection with pass-through; no need to open your computer
- One year Guarantee

DEX001 **Dexxa Scanner 4800** **$189**

LOGITECH

Logitech Wingman Extreme Digital and X-Wing V's Tie-Fighter Bundle

Free Games Bundle

Logitech's WingMan Extreme Digital joystick provides speed and precision. It features an award winning sculpted grip, reinforced trigger and four-way hat switch, rubber coated buttons, radical throttle for intuitive speed control, and a super heavy base with two extra buttons for extra weapons control in Windows 95 games. An easy to use control panel lets you customise the buttons for Windows 95 games.

Star Wars: X-Wing Vs Tie-Fighter the academy version by Lucas Arts is a single and multi-player space combat simulation game. Now you can prove your mettle in challenging real-time dogfights of 2 to 8 players over a modem or local network. It features 14 combat training missions in 9 meticulously enhanced Star Wars Starfighters with or against your friends. Or fly solo to enhance your skills. All 14 training combat missions can be played solo; 7 of which can be played multi-player and you can fly either for the Empire or the Rebellion, alone or with others, cooperatively or competitively.



LOG080 **WingMan Extreme Digital & X-Wing Vs Tie-Fighter** **$89.95**

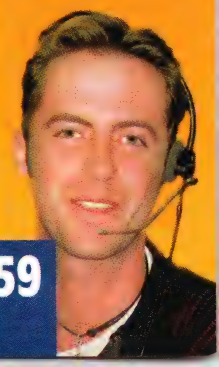
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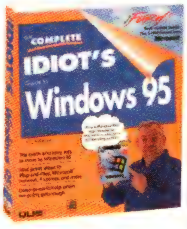
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NetComm Roadster56 Ultra

Summer Special*

With the recent release of the Roadster56 Ultra, Netcomm is offering an explosive deal this summer.
Those games freaks will be in for a treat, when they open there Netcomm Roadster56 Ultra this Xmas. The Limited Edition offer contains everything you need, it not only gets on the Net for free, but also gets you hooked up to Multiplay for one month free, plus you get three trial versions of the latest games.
What more could a games addict need?
And, all this at no extra cost!
The full details of the package are as follows, and all for the low price of $299 RRP ex tax.



Summer Special Includes:

- **20 FREE hours of Internet time**
- **1 Month Unlimited free access to Multi-Play**
- **First 2000 come in a clear casing**
- **FREE trial games: Quake, Shadow Warrior, Duke Nukem**

Features

- Roadster56 Ultra modem - using the latest technology you can now surf the Net at blistering speeds of up to 56,000bps. Plus you can use your modem as a handsfree speakerphone. The Roadster56 Ultra also allows you to talk and send data at the same time over the same line using SVD technology.
- One month free subscription to MULTIPLAY - play the worlds most popular games against opponents all over Australia over the Net.
- 20 hours free Internet time from Access One - with no registration fee!

Quality Endorsed Company ISO 9001 ISO 9002

NET135	Roadster 56 Flex Summer Pack	$259
NET017	Roadster 56K Flex Ultra (External)	$259
AUP315	Roadster 56K 2x (External Data/Voice)	$225
AUZ136	Roadster 33.6K (External)	$189
AUP136	Roadster 33.6K Ultra (External)	$225

NetComm CardModem 56k Combo

Occupying one PC Card slot, the CardModem 56 supports the Rockwell 56k standard allowing data connections up to 56,000 bps, Fax up to 14,000 bps and Ethernet connectivity for 10Base-T and UTP networks running Novell, Microsoft and Macintosh are also supported.
Flash upgradability ensure the CardModem 56 Combo can be upgraded while in the field. Users requiring high speeds access to the Internet or corporate remote access services while simultaneously accessing their corporate LAN should consider the NetComm CarModem 546 Combo



Features

- Australian designed and manufactured
- Lifetime Warrantee with 1800 free support
- PC Card Type II
- 56 Flex technology
- DigitalLine Protection
- Plug and Play

Quality Endorsed Company ISO 9001 ISO 9002

NET130	CardModem 56k Combo	$519
NET131	CardModem 56k	$359
AUP173	CardModem 33.6k V34	$289

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

Accura 33.6 Data/Fax/Voice

Hayes



From the inventor of the PC Modem!

When technology changes, isn't it best to go with the industry standard? Experience the Internet, online services, bulletin boards, e-mail, cybershopping, faxes and professional message centre software. Available Windows® or Macintosh PC's.

Optima Business Modem

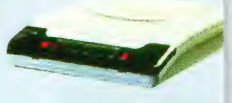
World's fastest modem 230, 400 bit/s Voice/Data/Fax, remote configuration, security flash upgradeable, leased line ideal for business or the power user.

AUP169	Accura 33.6K Modem	$189
AUP171	Optima PC Card Modem GSM	$429
AUP172	Optima Business Modem V34	$359

Hayes Accura 56.K Speakerphone Moden

How fast do you want to get there?





56.6K SVD Modem

With the ACCURA 56K, you get the fastest Internet access over ordinary phone lines and the legendary Hayes reliability. Professional quality messaging system provides Voice Mail and Fax-on-Demand. A single line can turn any remote office into a professional message centre. Why settle for a Hayes compatible modem when you can have a genuine Hayes modem?

Stock Code HAYO

$28

Features

- Professional, Multiple Voice mailbox System - Create and manage multiple voice mailboxes remotely.
- Fax-On-Demand - Now you can provide ultra fast response to customer's inquiries
- Flash ROM Upgrades - Fast, flexible and easy upgrades to modern features, eliminate obsolet equipment
- V.34 Support - Modems support ITU-T V.34 technology to provide maximum support when connecting to V.34 modems
- 5 year warranty, free lifetime technical support

HAY022	Accura 56K Speakerphone Internal Modem	$23
HAY023	Accura 56K Data/Fax External Modem	$24
HAY024	Accura 56K Data/Fax Internal Modem	$23

All prices INCLUDE sales tax. Prices subject to change, see page 3 for terms & conditions.

For the cost of a local call **Orderline 1300 360 799**

Sales Lines Open 9am til 6pm Monday to Friday and 10am til 3pm Saturday.

VISA MasterCard bankcard

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

PalmPilot

To keep you organised and in-touch with your PC!



INCLUDES FREE CABLE

Note: existing Pilot 1000/5000 users can upgrade to Palm Pilot Professional with this 1 meg upgrade card

NEW PRODUCT

- Features for PalmPilot Personal & Professional
- Back-lit Display
- PC Link (download & Upload information)
- Shirt pocket size & light weight
- Instantly syncs data with your PC's Popular Application: Microsoft Schedule+, Lotus •Organiser, Symantec ACT!, Now Up-To-Date, Sidekick, ECCO, Day-Timer Organiser, •Maximiser, Franklin Ascend 97 and more.
- Flashroom upgradeable
- Programmable using "Code Warrior" for MAC/PC
- 2 x AAA battery (included in pack)
- Storage Capacity:
- PalmPilot Personal (512K) edition: 2500 addresses, 2400 appointments, 500 "to do" •items and 500 memos.
- PalmPilot Professional (1 Meg) Edition: 4000 addresses, 2400 appointments, 750 "to do" items, 750 memos and 100 emails.

USR020 PalmPilot Personal **$459**

USR021 PalmPilot Professional **$575**

USR024 1 Meg upgrade card **$157**

Sportster Flash

NEW PRODUCT

x2 56K (External)

Quality at an affordable price



Sportster Flash x2 56K Features

- Fax/Modem with Digital Personal Voice
- Full Duplex Speaker Phone (Handsfree Telephone)
- Fast data transmission 56.6K depending on server
- Plug & Play (WIN 95)
- Reflash ROM
- 5 Year Warranty

5 Year Warranty

For more information about any of the above products please look up the US Robotics Webpage: http://www.usr.com.au

USR040 Sportster Flash x2 56K (External) **$269**

Also available (not pictured)

USR022 Courier V. Everything x2 33.6K (external) free upgrade **$319**

USR023 Worldport 33.6K PCMCIA Card **$345**

Banksia Wave SP

$25 rebate on Banksia 33.6k til end of Feb

The fully featured 56,000bps modem!

5 YEAR WARRANTY

The Wave SP is the first modem to be awarded a prestigious Australian Design Mark in recognition of design excellence and innovation.
The assessment panel commented that "(the Wave SP) is radically different from its competitors and upholds the highest principles of unitary design".



Banksia's revolutionary new wave SP Fax Modem includes;

- High speed data transmission at 56,000bps
- Fax transmission at 14,400bps
- Simultaneous voice & data (SVD) transmission
- Full duplex speakerphone (hands free telephone)
- Fully featured smart answerphone
- Microsoft Internet Explorer™ for Internet surfing & Web site construction
- The best new games
- A radical new shape for optimum audio performance

AUSTRALIAN DESIGNMARK 1997 GOOD PRODUCTS BY DESIGN Banksia Technology Pty Ltd Wave SP Licence No 96034 STANDARDS AUSTRALIA

BAN003 Banksia Wave 56.6 SP Fax Modem **$279**

AUZ134 Banksia Wave 33.6 SP Fax Modem **$229**

ComboCard 336

Network, Internet, Fax & Remote Communication in One Card

Ideal for the mobile professional

Features:

- Network and remote connectivity via LAN
- Remote connectivity via phone line
- Send and receive data at speeds up to 33,600bps
- Fax direct from your PC at 14,400bps
- Simultaneous ethernet & faxmodem operation
- Sleep mode conserves your notebook's battery
- Smart answerphone



BAN002 Combo Card **$499**

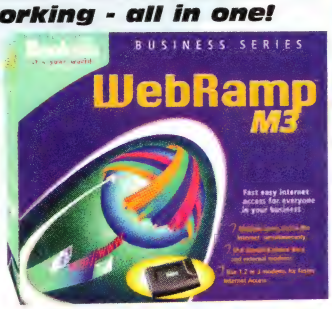
WebRamp M3

Give everyone simultaneous Internet access plus networking - all in one!

WebRamp M3 has no technical limit to the number of users. Faster modems will improve overall performance. WebRamp will bring email to the small office, browsing for everyone on the LAN. It will enable file transfers over the net and access to the most common Internet applications.

Webramp M3 works with most networking environments:

Windows 95, Windows NT, MacOS, Windows 3.1*, Windows for Workgroups*, NetWare*, LANtastic



Stock Code BAN020

$949

All prices INCLUDE sales tax. Prices subject to change, see page 3 for terms & conditions.

8 Reasons why 1,000's of buyers choose Software Warehouse every month!

- **Price Pledge** — We will beat any advertised price on any identical product. Subject to terms & conditions P2.
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INTERNATIONAL SOFTWARE WAREHOUSE

MODEMS

INTERNATIONAL SOFTWARE WAREHOUSE Pty Ltd

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VMail!

BAN012



Only $59.

Add Emotion and Personality- Attach a Video or Audio file to your e-mails!

For a limited time only.

Xircom CreditCard Modem 56

Innovative 56K PC Card modem offers notebook users performance benefits today and tomorrow.



The Xircom CreditCard Modem 56 - GlogalACCESS is a versatile communication solution which enables you to access information for any location, anywhere in the world.
This innovative PC Card offers notebook users more frequent connections at higher speeds than current v.34 modes, up to 56Kbps.
A GlogalACCESS product, the CreditCard Modem 56 features unique enhancements for international travelers. These include international approvals for the most reliable connections, and software which automatically configures the modem to local dialing conventions when traveling from country to country.

Features:

- Robust High-speed connections - provides more frequent connections at higher speeds than current v.34 modems.
- GlobalAccess - One card for worldwide use, internationally approved to ensure reliable connections worldwide; also includes CountrySelect which simplifies modem set-up when traveling.
- Flash ROM-upgradable Allows quick and easy software upgrades
- Digital Shield - protects your modem against high-current digital phone lines.
- Easy Installation - Installation program automatically configures notebook and modem
- Limited Lifetime warranty Hardware, 2 years software.

XIR036 **CreditCard Modem 56** **$379**

CreditCard Ethernet 10/100 + Modem 56

Innovative 10/100 Ethernet and 56K modem functionality offers notebook users performance benefits today and tomorrow.



The CreditCard Ethernet 10/100+Modem 56 from Xircom's award-winning family of Fast Ethernet products combines a 10/100Mbps Ethernet adapter and high-speed 56K modem in a single PC card.
This fast Ethernet combination PC Card offers seamless operation on 10Mps and 100Mbps networks, as well as modem speeds up to 56Kbps. It protect your investment by enabling you to purchase an Ethernet+Modem PC Card today, with speeds that meet your needs in the future.
A GlobalACCESS product, the CreditCard Ethernet 10/100+Modem 56 features unique enhancements for international travellers.

Additionally, Xircom's optional GSM connection kits provide truly mobile solutions by connecting your Xirxom Ethernet+Modem Card to a GSM phone.

Whether in the office, at home or traveling internationally, the CreditCard Ethernet 10/100+Modem 56 gives you the flexibility to take advantage of performance benefits today and tomorrow.

Limited Lifetime warranty Hardware, 2 years software.

XIR035 **CreditCard Ethernet 10/100 + Modem 56** **$645**

GSM Connection Kit

GSM Connection Kit connects your Xircom modem to a GSM phone providing true mobile connectivity.

GSM Connection Kit ..... **Call**

Xircom CreditCard GSM

Connect Anywhere, Anytime: use Xircom's GSM PC Card to send and receive data, faxes or SMS messages while you're on the move.



Connect to your corporate network, stay in touch with your business, surf the Internet or access E-mail while you're on the move. Enjoy the freedom of data communication in an airport or at a customer site anywhere in the world without being tided to a telephone socket. The CreditCard GSM is the ideal solution for all your mobile connectivity needs.

The GlobalACCESS CreditCard GSM provides notebook users with data and fax communication over GSM (Global System for Mobile Communications) networks worldwide. Connect your GSM handset to the Xircom CreditCard GSM PC Card and turn your notebook into a mobile office. A member of Xircom's comprehensive family of Global ACCESS PC Cards, the CreditCard GSM increases your productivity by enabling you to send and receive data, faxes and SMS messages on your notebook.

Features:

- Send and receive Data - Transfer files, e-mail or surf the internet over a digital GSM link at speeds up to 9600bps
- Fax - Send and receive faxes.
- SMS - The Short Message Service (SMS) enables users to send and receive messages up to 160 characters on the notebooks.
- Full Software Bundle - Includes the Wireless Office software package from Trio
- Limited Lifetime warranty Hardware

XIR034 **CreditCard GSM** **$419**

Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

Zoom V.34XE Modem

High-speed communication with Zoom V.34xe Modem



Experience fast and nearly error-free communication on your computer with the external 33.6 Zoom Fax/Data Modem. Supports the international V.34 standard and the V.Fast Class standard for 28,800bps data transmission. The Zoom V.34XE makes it easy to "broadcast" personalised faxes to groups of people, to schedule fax deliveries when connection rates are low, an to forward a fax with no loss of clarity. Also supports V.42, and MNP automatic error correction, and MNP 10ECTM for more reliable cellular, transcontinental, and international communications. Bundled software includes SFT full-featured and Microphone LT Internet. Starter Kits from Telstra BigPond, Oz-Email, and Compuserve also included along with Windows software.

Features

- Supports both the V.34ITU standard and V.Fast Class 28,800bps
- Caller ID compatible
- V.17 protocol for 14,400bps fax capability
- V.42bis and MNP 5 data compression
- V.42 compliant error correction
- Includes five-year warranty
- 33.6k data transmission rates
- Telstra duct compatible

Zoom Guard lighting and surge protection

ZOO011 **Zoom 33.6K Fax/Data (External)** **$185**

ZOO010 **Zoom 33.6K Fax/Data (Internal)** **$175**

Simple Modem 33.6 Data/Voice Modem

Simplecomputing



With a Simple Modem you get a value for money modem with stacks of features.
Fax Direct form your PC
Send and receive faxes. Simple Modem allows you to send and receive faxes directly from your PC easily.
VoiceMail messaging
You can set up to 9 password protected voice mail boxes to receive you and your work associates voicemail and fax messages.
Get a standard document, such as brochures, and automatically faxed back to your customers.
Win & Win95 Internet Software
Instantly Surf the Internet with software from OzEmail.
5 Year Warranty

BAN001 **Simple Modem 33.6 (ext)** **$149**

Simple Modems

Simplecomputing

Business Pack Simple 336 Data Fax Voice Modem

This Simplecomputing Business Pack is a complete communication and productivity solution package. Contains all the hardware & software required to get you on the Internet, quickly and simply.
The Business Pack makes connecting to the Internet easy by providing a complete set of communication tools to ensure you get the most out of the time you spend on the internet.



The Business Pack provides these tools.

INTERNET - high speed access
SEND & receive faxes
FAX on demand
VOICEMAIL 9 individual boxes

BAN010 **Business Pack** **$189**

All prices INCLUDE sales tax. Prices subject to change, see page 3 for terms & conditions.

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Sales Lines Open 9am til 6pm Monday to Friday and 10am til 3pm Saturday.

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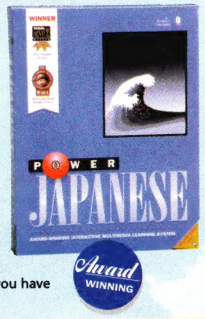
LEARNING

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

Power Japanese

Version 2.0

Award-Winning Interactive Multimedia Learning form Transparent Language



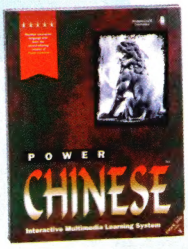
Japanese is the fastest growing foreign languages in the US, Canada and Australian and promises to be one of the most important languages for global business in the 21st Century. Now, native English speakers can quickly teach themselves basic spoken and written Japanese using their own desktop or laptop PC, Power Japanese is a comprehensive interactive multimedia learning system for the Japanese language. By the end of the course, you will have a solid foundation in the Japanese language. What's more, Power Japanese remains a valuable tool long after you have completed the course.

Features
- Thousands of spoken words and sentences are instantly accessible. You can practice pronunciation over and over again. No cumbersome rewinding is necessary, unlike tape-based systems.
- Active learning at its best! Fully interactive presentation of materials is reinforced by challenging and fun drills which help to anchor all the central concepts in your mind.

TRA121 **Power Japanese** ..... Academic pricing available **$129**

NEW PRODUCT

Power Chinese



Version 1.0

Interactive Multimedia Learning System from Transparent Language

Power Chinese is specifically design for the native English speaker. Comparisons are made throughout Power Chinese between how things are done in English versus how things are done in Chinese. These comparisons make learning Chinese easier and more enjoyable as you need only to focus on those aspects of the language which are significantly different from English.

TRA 122 **Power Chinese** ..... Academic pricing available **$129**

$5000 Travel Promotion!

A lucky customer will win $5,000 of travel - to the destination of their choice - with Transparent Language and Reckon Software.

To enter, simply purchase any Transparent Language product from this page, between October 1 and December 31 1997 and return proof of purchase and entry form before 9/1/98 to Reckon Software.•
•Conditions apply

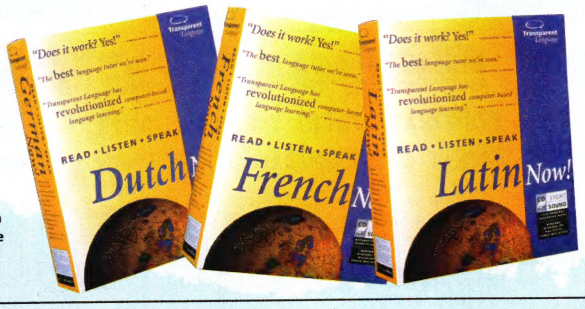
Read - Listen - Speak with Language NOW!

Transparent Language®

NEW PRODUCT

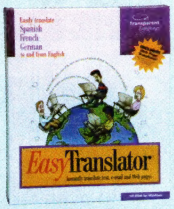
Using interesting foreign language stories, articles and conversational material integrated with sound, Pictures and video, users build an improve their foreign language quickly and easily

- * Read compelling literature that grabs and holds your interest
- * Hear every word and sentence pronounced
- * Perfect your own pronunciation with record and playback options
- * See authentic video and pictures depicting real life situations
- * Build your skills with fun interactive learning games
- * Use and understand real languages, in context as you build your skills to true proficiency



TRA100	French Now! ..... Academic pricing available	**$85**
TRA101	German Now!	**$85**
TRA102	Spanish Now!	**$85**
TRA103	Italian Now!	**$85**
TRA104	Latin Now!	**$85**
TRA105	Russian Now!	**$85**
TRA106	Dutch Now!	**$85**
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Easy Translator



EasyTranslator - Instantly translates text e-mail and web pages!

Quick, easy translations in Spanish, French and German... to and from English!

TRA110 **Easy Translator** ... Academic pricing available ... **$69**

Survival Phrases - Travel with confidence!



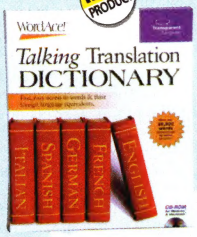
Survival Phrases will:
Quickly and easily get you up to speed on important words and phrases.
Familiarise you with the culture and customs of popular tourist and business destinations.
Makes you a more confident international traveller.

TRA109 **Survival Phrases** .. Academic pricing available .. **$69**

WordAce Multilingual

NEW PRODUCT

Talking Translation Dictionary English/French/German /Italian/Spanish



Transparent Language®

The WordAce! Range features:
- Features Translation dictionary
- Thousands of verb conjugations
- Fun games for mastering vocabulary
- 40,000 words pronounced by native speakers
- Slow sound feature allows the user to choose playback speed without distorting the pronunciations
- Exclusive algarithmatically driven engine feature ensures no two lesions are ever the same

TRA123 **Multilingual English/French/German/Italian/Spanish** **$69**

WordAce! Bilingual Talking Translation Dictionary

Academic pricing available

TRA111	English/French	$49	TRA116	English/Dutch	$49
TRA112	English German	$49	TRA117	English/Swedish	$49
TRA113	English/Italian	$49	TRA118	English/Finnish	$49
TRA114	English/Russian	$49	TRA119	Euro/Portuguese	$49
TRA115	English/Spanish	$49	TRA120	English/Norwegian	$49

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Manage your diary, contacts, meetings and communications via the Internet.

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Learn all about the human body with multimedia guide.

4. **TurboCAD V1 Windows**


The most significant release of any CAD software this decade

5. **EZ Language Version 1**


EZ Language V1 is the fun & easy vocab-ulary pronunciation tutor for 7 different languages

6. **Leonardo the Inventor**


A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

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Multimedia Encyclopedia

IBM

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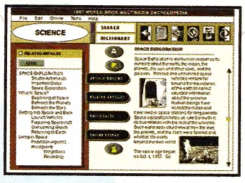
This edition includes the entire text of 22 volumes of the International World;d Book Encyclopedia and 2-volume dictionary.

It provides seamless Internet access with links to thousands of online resources with colourful 3D animations bringing subjects to life.

Includes Entire Text of 22 Volumes

Trade up to the World Book and get $30 cash back!

If you currently own a multimedia encyclopedia , but want the best, you can trade in your old CD or disk and get a $30 cash back on your world Book purchase. (ask for details)



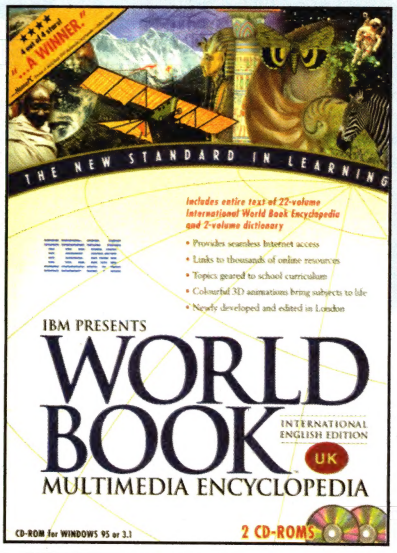
Provides seamless Internet access. Links to thousands of online services. Newly Developed and edited.



Contains Over 750 maps (Including overlays of temperature, terrain and economy)



Time Frame search by year, decade, century, millennium or era



World Book contains:

- Thousands of pictures, hundreds of videos and other multimedia elements.
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- Immediate access to online content for Internet users.
- Interactive simulations to quickly understand complex concepts.
- Sticky Note, Highlighter and Outline features help organise research efforts.
- A time frame search by year, decade, century, millennium or era.
- 3D animations and virtual reality – 360 degree panoramic views, such as Stonehenge.
- 225,000-entry dictionary and a fully featured atlas.

Stock Code WLD001

$85

Designed for Microsoft Windows'95

Riven: The Sequel to Myst

Prepare yourself for Riven, the much anticipated sequel to Myst, the best selling computer game of all time.

Leebro 17

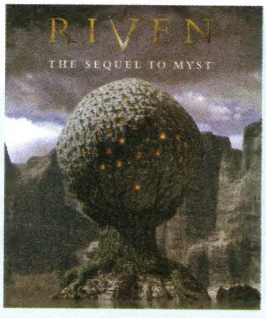
...my worst fears are realised, the damage is more extensive than I ever imagined. I must get everyone off Riven as soon as possible, before its total collapse. The problem now is my father. My dear Catherine, what will be her fate... if he's still the same? I'm afraid it will take more than I, Atrus, to outwit Gehn... and his corruptive ways. I must act while there's still time. I must find someone... to send to Riven. Soon, it will be time. Prepare to enter a world "torn asunder" by timeless, unresolved conflicts, a world of incomparable beauty, intrigue, and betrayal. Prepare to go to Riven.

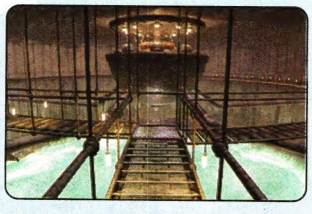
Journey through vast, awe-inspiring landscapes where clouds sit nestled in a deep blue sky and the rolling sea waters shimmer from bright morning sunlight. But be forewarned, nothing is quite as it seems. Reclusive beings and mysterious creatures populate the land. Deep, dark secrets lay hidden at every turn.

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Index

Category	Page
Product Listing	2
Introduction	3
SOFTWARE	
Microsoft	4-7
Hot Deals	8
PCs/Thinkpads	9
Business	10-20
Graphics	21-26
Utilities	27-41
PERIPHERALS	
Networking	42-44
Multimedia	45-50
Storage	51-53
Scanners	54
Printers	55-58
Inputs	59
Modems	60-62
Leisure	63-64

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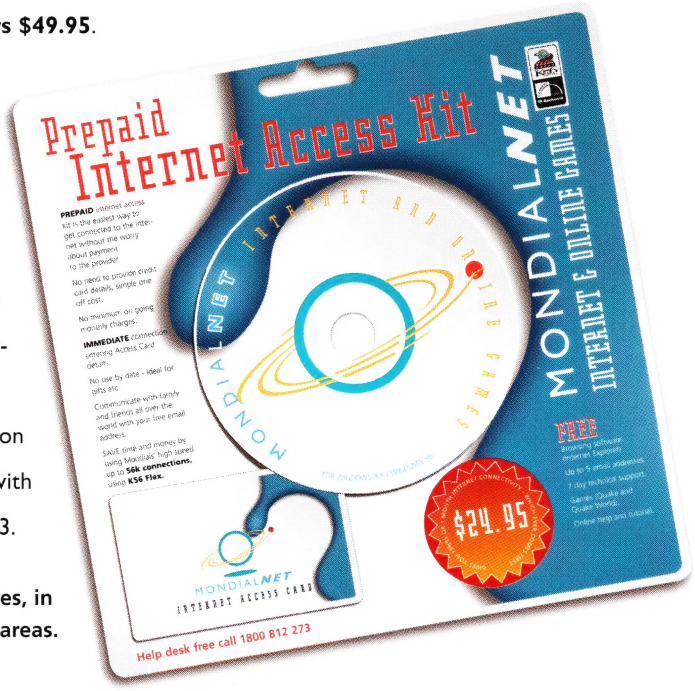
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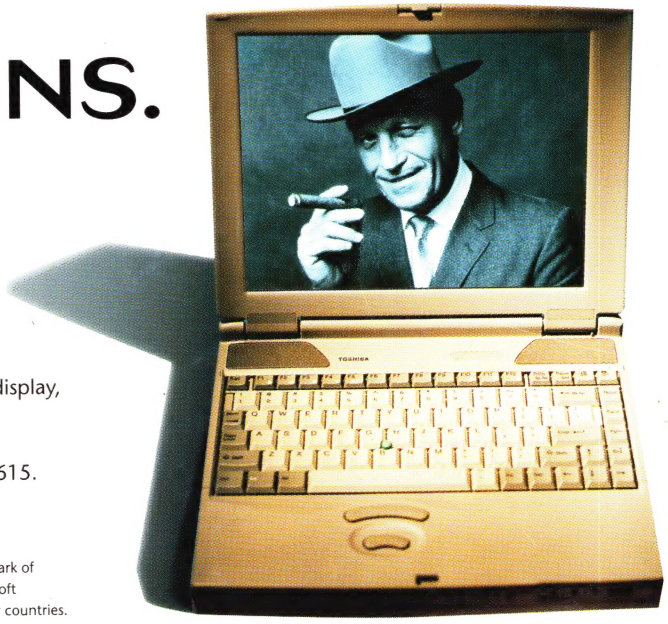
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